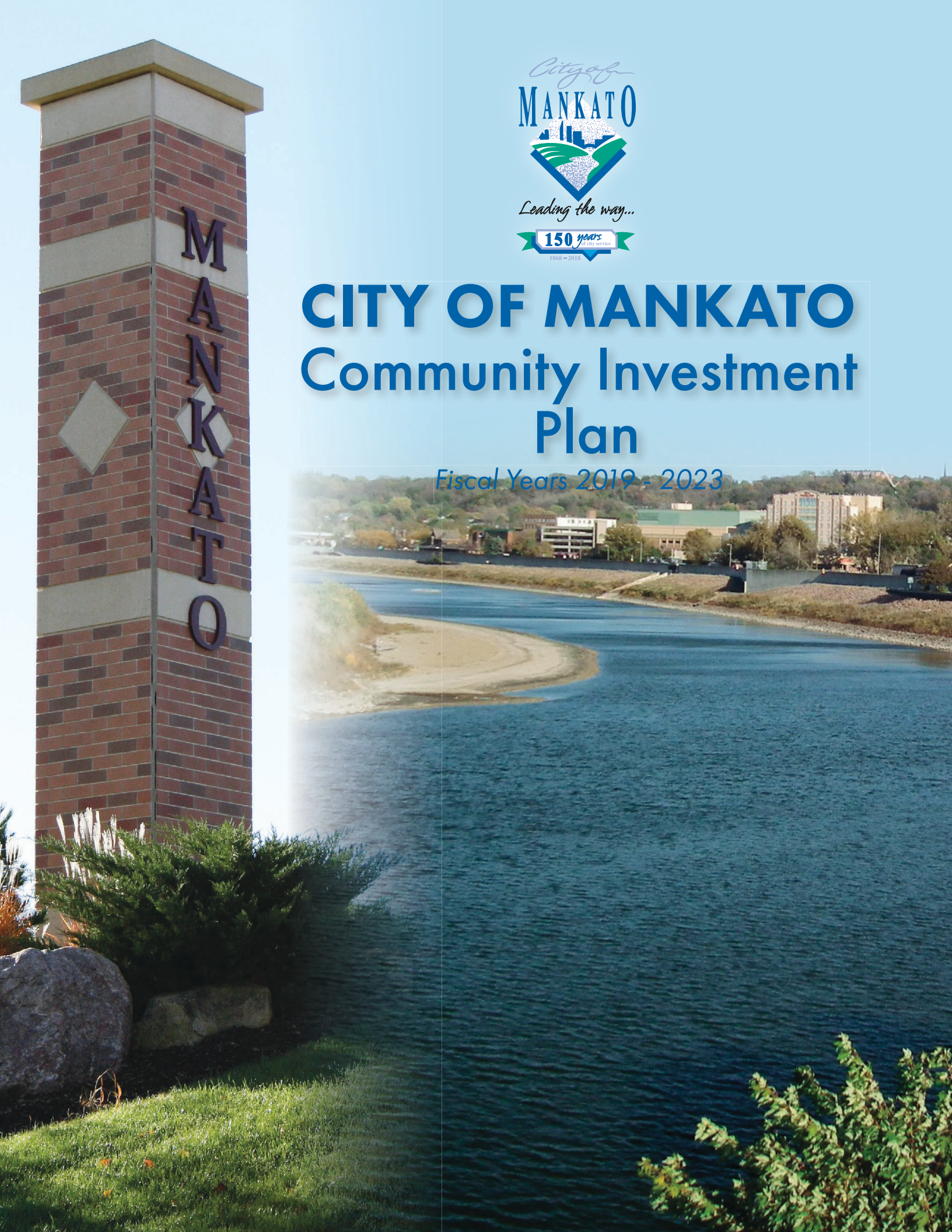




# CITY OF MANKATO

## Community Investment Plan

*Fiscal Years 2019 - 2023*









## Table of Contents

<b>COMMUNITY INVESTMENT PLAN INTRODUCTION.....</b>	<b>1</b>
COMMUNITY INVESTMENT PLAN OVERVIEW .....	3
<b>SURFACE TRANSPORTATION CIP.....</b>	<b>7</b>
STREET PROJECTS.....	9
<b>CAPITAL REPLACEMENT .....</b>	<b>95</b>
PUBLIC SAFETY FIRE EQUIPMENT .....	97
PUBLIC SAFETY POLICE EQUIPMENT .....	103
WATER CAPITAL IMPROVEMENT FUND .....	109
WASTEWATER CAPITAL IMPROVEMENT FUND .....	153
WASTEWATER PLANT CAPITAL IMPROVEMENT FUND.....	167
STORMWATER CAPITAL FUND.....	209
INFO TECH CAPITAL REPLACEMENT .....	243
IGC CAPITAL REPLACEMENT FUND .....	253
PARKS CAPITAL REPLACEMENT FUND .....	263
PUBLIC WORKS BUILDING REPLACEMENT FUND .....	281
PUBLIC SAFETY BUILDING REPLACEMENT FUND.....	295
<b>SALES TAX CIP .....</b>	<b>303</b>
SALES TAX - RIVERFRONT PARK.....	305
SALES TAX - CIVIC CENTER .....	309
SALES TAX - AIRPORT .....	335
SALES TAX - PARKING .....	379
SALES TAX - SPECIAL PROJECTS.....	397







# Community Investment Plan Introduction



## Community Investment Plan Overview

The City of Mankato's Capital Investment Plan (CIP) establishes, prioritizes, and plans funding for projects to improve existing and develop new infrastructure and facilities. A CIP promotes better use of the City's limited financial resources, reduces costs, and assists in the coordination of public and private development.

The City's CIP is a five-year roadmap, which identifies the major expenses over and above routine annual operating expenses. While the CIP serves as a long range plan, it is reviewed and revised annually, with the first year being funded and remaining years being anticipated. Priorities may be changed due to funding opportunities or circumstances that cause a more rapid deterioration of an asset.

As a basic tool for documenting anticipated capital projects, it includes "unfunded" projects which needs have been identified, but specific solutions and funding have not necessarily been determined.

The overall goal of the CIP Review Team is to develop CIP recommendations that:

- ◆ preserve the past, by investing in the continued upgrade of City assets and infrastructure;
- ◆ protect the present with improvements to City facilities and infrastructure; and
- ◆ plan for the future.

There are several benefits for developing and adopting a Capital Investment Program. Not only does the CIP become a management tool for City staff, and elected and appointed officials, a CIP also provides valuable information to the citizens, developers and businesses who are interested in the development of the community. The CIP document also assists in leveraging available resources through improved timing of projects, and coordinating City projects with those of other public or private entities.

Additional benefits and advantages include:

- ◆ The CIP is a tool to implement the Comprehensive and Strategic Plan, as well as a number of other master plans completed for various city service areas.
- ◆ The CIP allows the city an opportunity to distribute or prorate the cost of capital improvements over a period of years, thus maintaining tax stability and avoiding sharp changes in the debt structure.
- ◆ The CIP process allows various city departments and the general public to suggest a variety of potential projects, which are subsequently evaluated based upon established criteria and financial feasibility for inclusion in the CIP.
- ◆ The CIP, by anticipating needs in advance, provides adequate time for proper design of new projects and review of policy decisions to see whether they were properly made, and adjusts capital expenditures according to the financial resources of the community.



- ◆ The CIP, by listing long range projects, helps to keep the public informed as to what the City needs and its plans to meet such needs, as well as affords time for input on final design and project timing that controls cost and limits neighborhood disruption.
- ◆ The CIP provides an opportunity to save money in the acquisition of land as sites for public facilities by anticipating future needs and acquiring the land at lower costs before private development would increase the costs.
- ◆ The CIP will prevent premature development of areas and prevent excessive costs and demands on the City in providing services and extending City utilities.
- ◆ The CIP will help to achieve a more balanced development of projects so as to avoid concentration or overemphasis upon any single project.
- ◆ The CIP makes available to other governmental agencies, private utilities, private investors, and other industries, a comprehensive view of public improvement projects for which they may make sounder judgments concerning their own programs.
- ◆ The CIP guides or assists the development community in making investments or development decisions.

Despite the many benefits of capital improvement programming, it is important to highlight the fact that this is a fluid document and a general guide. Therefore, changes can occur for a number of reasons such as changing economic conditions or shifts in public policy. Private economic decisions can also affect the timing, scale and location of capital projects.

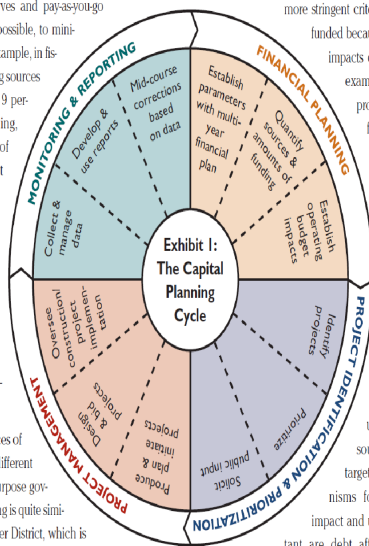
Depending on funding availability, community support, and other economic factors the projects within the outlook could shift in projected funding year or change completely. The likelihood of a project moving forward depends primarily on the funding sources, necessity for ongoing provision of service, and timing necessary to extend the overall asset life at least cost. These fluctuations make flexibility within the plan essential to its sustainability. The best example of this type of project is in the major utility funds. Capital maintenance and replacement projects for the water and wastewater systems are costly, but essential to assure availability and quality of influent and effluent of the system. The facility master plan for these utilities aligns with both asset life, regulatory need, and rate structure to assure a balance that does not overburden the rate payer nor underserve the needs of the system.

tal projects because they are volatile or their future is uncertain. Fund balance reserves and pay-as-you-go funding are used, when possible, to minimize debt issuance. For example, in fiscal 2004, these two funding sources make up 15 percent and 9 percent of total CIP funding, respectively. The Office of Research and Budget performs an analysis of the operating budget impacts of each potential project (e.g., the costs of irrigating and mowing the landscaping on new medians) and evaluates those impacts relative to the projected operating budget.

While the funding sources of a water utility are quite different from those of a general-purpose government, financial planning is quite similar. The Contra Costa Water District, which is located near San Francisco and serves about 450,000 customers, develops a 10-year CIP as part of an annual cycle that includes operating and capital budget development and rate setting. Besides a 10-year plan for funding capital projects, the CIP esti-

not included in previous CIPs might be funded if they meet more stringent criteria. Some projects might be funded because of their projected positive impacts on the operating budget; for example, Philadelphia's Aladdin project used a city revolving loan fund to finance the replacement of more than 50,000 light fixtures in municipal facilities, resulting in \$500,000 in recurring annual savings.

Effective financial management also means developing – and adhering to – sensible policies governing, for example, capital eligibility; uses of one-time revenue sources, pay-as-you-go funding targets, term of debt, and mechanisms for cost recovery such as impact and user fees. Particularly important are debt affordability policies, which should include policies on off-balance sheet financings, self-imposed debt limitations, and the management of short-term and long-term investments as they relate to short-term and long-term debt (asset-liability management).



## CONCEPT

## LONG RANGE FINANCIAL PLANNING

A sustainable capital program is simply not possible without reliable funding sources. For this reason, prudent financial planning is the cornerstone of an effective capital investment plan. While the City of Mankato has diversified its funding sources, like most agencies it cannot afford to allow the CIP to be based on project needs first and plans for financial stability second. Because resources are always more limited than needs, fiscal discipline is the yardstick upon which against which almost all CIP decisions are made.

Figure at right courtesy of “*Managing the Capital Planning Cycle*” (Government Finance Review, June 2004)

This means:

- ◆ beginning with a solid and accepted multi-year financial plan;
- ◆ identifying long term costs, asset life, and optimal replacement schedules to best use limited resources;
- ◆ committing to a single-year capital budget and a multi-year CIP, with a five-year horizon and building toward a 10-year outlook;
- ◆ identifying financial resources and commitments carrying forward from previous CIPs;
- ◆ quantifying the debt, if any, to be issued for capital projects over the term of the plan based on debt affordability goals, debt limitations, and debt service projections;
- ◆ establishing goals for operating budget (“pay-as-you-go”) or reserve funds to be spent on capital projects over the term of the plan (“one-time money for one-time expenses”);
- ◆ identifying other funding sources, including earmarked revenue streams, grants, revolving loans, and development contributions; and

- ◆ quantifying the operating costs, savings, and/or revenues that will result from project implementation, and incorporating those results into the financial plan.

Add below (or similar) to the multi-year supplemental plan to clarify:

The projects outlined in the 2020-2024 supplemental CIP are unfunded. However, they provide an important forecast of anticipated projects that require discussion, leveraged funding sources, or further prioritization in order to assure that projects are completed as needed, while maintaining available resources as contingency so that the city can be resilient to outside forces.



## **Community Investment Plan - Surface Transportation Projects 2017**

## 5000 Funds CIP Details

## 2018 Capital Projects



## 2019 Capital Projects

## 2020 Capital Projects

## 2021 Capital Projects





# Surface Transportation CIP





## STREET PROJECTS



## 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
2019 Alley Improvements	2019	369,815
2019 Resurfacing Projects	2019	681,202
Branson Street	2019	192,485
Cherry Street from South Front Street to Hanover Street	2019	2,913,571
Development Project	2019	1,000,000
Germania Park Redevelopment Phase 1	2019	1,857,663
Madison Avenue - Haefner Drive Roundabout	2019	900,000
Petition, Expansion and Major Streets	2019	425,000
Poplar Street - Sibley Parkway to Riverfront Drive	2019	955,675
Riverfront Drive Demonstration Project	2019	65,000
Shaubut Street	2019	964,544
<b>Subtotal</b>		<b>10,324,955</b>
<b>Total</b>		<b>10,324,955</b>

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
2020 Alley Improvements	2020	381,802
2020 Resurfacing	2020	1,204,511
2nd Street Warren to Main	2020	2,737,805
Belle Avenue	2020	765,224
Development Project	2020	1,000,000
Germania Park Redevelopment Phase 2	2020	1,210,000
Glenview Avenue	2020	498,412
MN River Trail Bridge	2020	750,000
Parkway Ave	2020	827,645
Petition, Expansion and Major Streets	2020	550,000
Pohl Road and Stadium Road Intersection Improvements	2020	1,296,893
State Aid Route Lights	2020	250,000
<b>Subtotal</b>		<b>11,472,292</b>
<b>Total</b>		<b>11,472,292</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
2021 Alley Improvements	2021	311,568
2021 Pavement Rehabilitation	2021	760,000
2nd Street Plum to Madison	2021	2,553,966
Development Project	2021	1,000,000
Germania Park Redevelopment Phase 3	2021	1,221,000
Gwyn Drive Reconstruction	2021	411,278
Petition, Expansion and Major Streets	2021	250,000
TH 169/Owatonna Street Signal Revisions	2021	370,000
Tile Street	2021	995,521
Warren Street	2021	3,435,149
<b>Subtotal</b>		<b>11,308,482</b>
<b>Total</b>		<b>11,308,482</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
2022 Alley Improvements	2022	357,270
Adams Street - CSAH 12 to CSAH 17	2022	4,811,569
Broad Street - Warren Street To Main Street	2022	3,972,448
Development Project	2022	1,000,000
Germania Park Redevelopment Phase 4	2022	1,084,000
Pavement Rehabilitation	2022	910,000
Petition, Expansion and Major Streets	2022	368,000
Riverfront Drive Main to Madison	2022	4,671,356
<b>Subtotal</b>		<b>17,174,643</b>
<b>Total</b>		<b>17,174,643</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Development Projects	2023	1,000,000
Germania Park Phase 5	2023	1,252,010
Hubbel Street	2023	1,614,815
Pavement Rehabilitation	2023	935,000
Petition, Expansion and Major Streets	2023	800,000
Rita Road	2023	1,616,929
<b>Subtotal</b>		<b>7,218,754</b>
<b>Total</b>		<b>7,218,754</b>



## Illustrative CIP Fund Overview

Project Name	Project Year
Fourth Street from Main Street to Madison Ave	2,389,055
Fourth Street from Warren Street to Main Street	2,770,281
Hazel Street	623,652
Highway 14 and Riverfront Drive - Roundabout	1,000,000
Rail Corridor Quiet Zone Improvements	1,525,000
Riverfront Drive/Owatonna Street	1,000,000
Roundabout Augusta and Highway 22	1,200,000
Roundabout Highway 22 and Hoffman Road	1,200,000
<b>Subtotal</b>	<b>11,707,987</b>
<b>Total</b>	<b>11,707,987</b>

## Project: 2019 Alley Improvements

Department: STREET PROJECTS

Project Years: 2019 - 2019

### Project Description

Alleys proposed for improvement in 2019 include: Alley 7-480, from Marsh Street to Elm Street; it is a bituminous alley with a PCI of 14 Alley 7-479, from Rock Street to Vine Street, it is a bituminous alley with a PCI of 1; Alley 7-479, from Elm Street to Rock Street, it is a bituminous alley with a PCI of 1; Alley 18-131, from Walnut Street to Main Street, it is a bituminous alley with a PCI of 38 Alley 18-254, from Putnam Street to Pearl Street, it is a bituminous alley with a PCI of 52 Alley 18-278, from Locust Street to North End, it is a bituminous alley with a PCI of 1 Alley 13-380, from Moreland Avenue to West Ninth Street, it is a bituminous alley with a PCI of 48

### Project Justification

In June of 2009, Short Elliott Hendrickson Inc. (SEH) was approved by the City of Mankato to develop an Alley Master Plan to assist in more efficiently programming alley improvements over the next 5 to 10 years. After the 2017 construction year, using the guidelines that were established for the 2009 Alley Master Plan, City Staff drafted an annex to the Alley Plan for years 2018-2022. The alleys in this study are the remainder of the alleys that were identified as a part of the original study that are in need of improvements. The grouping of projects for each year were established through their geographic location to minimize mobilization costs and increase contractor efficiencies, ensuring minimal disruption to neighborhoods. The projects were also grouped to maintain a consistent per year project cost. After all of the alleys within this appendix to the Master Plan are completed all future alley improvements shall be done through property owner petitions or on an as needed basis for maintenance activities as identified by city staff.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	19,128	0	0	0	0	19,128
Construction Contingency	28,982	0	0	0	0	28,982
Engineering	31,880	0	0	0	0	31,880
Storm Water	86,239	0	0	0	0	86,239
Street	203,586	0	0	0	0	203,586
<b>Total</b>	<b>369,815</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>369,815</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	161,774	0	0	0	0	161,774
Special Assessments	98,000	0	0	0	0	98,000
Stormwater Utility	110,041	0	0	0	0	110,041
<b>Total</b>	<b>369,815</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>369,815</b>

## Project Timeline

January - Feasibility Hearing

February - Assessment Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: 2019 Resurfacing Projects

Department: STREET PROJECTS

Project Years: 2019 - 2019

### Project Description

This project is for pavement rehabilitation on various roadways as well as intersection improvements. Additionally it includes non-motorized improvements, including bike trails and sidewalks. The proposed projects for 2019 include pavement rehabilitation on Elm Street between 7th Street and Division Street and East Main Street from Victory Drive to Kennedy Street. Proposed improvements will include in-place pavement reclamation and installation of new bituminous pavement.

### Project Justification

Elm Street is experiencing pavement deterioration due to the pavement being on a hill and remaining partially shaded during the spring and fall when pavements are more sensitive to freeze/thaw cycles. This caused the road surface to ravel (lose aggregate from the pavement) and reducing the friction and therefore safety of the roadway. Elm Street is a minor collector, has an aggregate pavement rating of 56 and carries approximately 2,200 vehicles per day. East Main Street from Victory Drive to Kennedy Street will complete the pavement rehabilitation of Main Street from Riverfront Drive to Hosanna Drive. There are areas of the roadway that are beginning to show signs of deterioration and the pavement is in need of interval maintenance to extend the life of the pavement section. This road is classified as a major collector and carries approximately 6,500 vehicles per day. The aggregate pavement rating is a 70. None of these projects have any obstacles to implementation and can be designed and constructed within a single construction season. Since parallel routes exist closely to these roadways, impact to the traffic network will be minimized. These roads also have sufficient road width so that certain construction practices can be performed under traffic. Overall the proposed improvements increase the standard of service for the area and allow for more effective delivery service while reducing the investment needed in annual repairs to the road.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	35,234	0	0	0	0	35,234
Construction Contingency	53,385	0	0	0	0	53,385
Engineering	58,724	0	0	0	0	58,724
Sanitary Sewer	7,345	0	0	0	0	7,345
Storm Water	24,210	0	0	0	0	24,210
Street	498,793	0	0	0	0	498,793
Watermain	3,511	0	0	0	0	3,511
<b>Total</b>	<b>681,202</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>681,202</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	296,422	0	0	0	0	296,422
Sewer Utility	50,000	0	0	0	0	50,000
Special Assessments	253,888	0	0	0	0	253,888
Stormwater Utility	30,892	0	0	0	0	30,892
Water Utility	50,000	0	0	0	0	50,000
<b>Total</b>	<b>681,202</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>681,202</b>

## Project Timeline

January - Feasibility Hearing

February - Assessment Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: Branson Street

Department: STREET PROJECTS

Project Years: 2019 - 2019

## Project Description

Reconstruction of Branson Street from Pearl Street to the northern terminus.

## Project Justification

Branson Street was last resurfaced in 1995 and has utilities original to the development. Recently complaints have been received regarding the color and turbidity of the water being supplied to residents on Branson Street. It has been determined that the watermain will require replacement in order to maintain water standards.

## Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	9,956	0	0	0	0	9,956
Contingency	15,085	0	0	0	0	15,085
Engineering	16,595	0	0	0	0	16,595
Sanitary Sewer	33,307	0	0	0	0	33,307
Storm Water	21,784	0	0	0	0	21,784
Street	65,159	0	0	0	0	65,159
Watermain	30,599	0	0	0	0	30,599
<b>Total</b>	<b>192,485</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>192,485</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	22,643	0	0	0	0	22,643
Sewer Utility	42,500	0	0	0	0	42,500
Special Assessments	60,500	0	0	0	0	60,500
Stormwater Utility	27,797	0	0	0	0	27,797
Water Utility	39,045	0	0	0	0	39,045
<b>Total</b>	<b>192,485</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>192,485</b>

## Project Timeline

January - Feasibility Hearing

February - Assessment Hearing

March - Advertise for Bids

May - Begin Construction

October - Project completion

## **Project: Cherry Street from South Front Street to Hanover Street**

Department: STREET PROJECTS

Project Years: 2019 - 2019

### **Project Description**

This project will reconstruct Cherry Street from South Front Street to Hanover Street. This will include the installation of new sanitary sewer, water main, storm sewer, aggregate base, concrete curb and gutter, bituminous pavement, sidewalk, and end services to each and every lot. This project will update the Cherry Street Corridor to bring it into harmony with the other recent projects that have been completed in the downtown area. This project will also revise signals and intersection geometry to meet the current and future needs of traffic and pedestrians.

### **Project Justification**

Pavement and utilities are near the end of their useful life and interim maintenance activities are no longer economical. Pavement condition index is 58 and utilities are in need of renewal. The underlying concrete pavement was installed in 1970 with a bituminous overlay completed in 2005. The utilities were installed in 1970 and consist of vitrified clay sanitary sewer pipe and cast iron water-main. In addition, pedestrian realm improvements and ADA compliance requirements are needed in this well traveled downtown corridor. Cherry Street carries over 7000 vehicles per day and is anticipated to continue to grow as more growth and downtown development takes place in the core. This project will modify traffic signals to aid in traffic flow as well as safe pedestrian movements. Turn lanes will be added where needed to improve turning movements, specifically at the intersection of Cherry Street and Glenwood Avenue.

### **Engagement Strategy**

A preliminary design meeting will be held in fall of 2018 with property owners and interested members of the public to discuss project components and needs. Once a preliminary design is complete, a follow up meeting will be held with property owners prior to the feasibility hearing. Other pre-design meetings will be scheduled as needed based on the outcome of the first public engagement.



## Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	150,702	0	0	0	0	150,702
Construction Contingency	228,336	0	0	0	0	228,336
Engineering	251,170	0	0	0	0	251,170
Sanitary Sewer	71,207	0	0	0	0	71,207
Storm Water	297,861	0	0	0	0	297,861
Street	1,638,146	0	0	0	0	1,638,146
Watermain	276,149	0	0	0	0	276,149
<b>Total</b>	<b>2,913,571</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,913,571</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	165,957	0	0	0	0	165,957
MSAS	1,500,552	0	0	0	0	1,500,552
Sewer Utility	90,861	0	0	0	0	90,861
Special Assessments	613,800	0	0	0	0	613,800
Stormwater Utility	190,035	0	0	0	0	190,035
Water Utility	352,366	0	0	0	0	352,366
<b>Total</b>	<b>2,913,571</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,913,571</b>

## Project Timeline

January - Feasibility Hearing

February - Assessment Hearing

March - Bid

May - Construction

October - Project completion

## Project: Development Project

Department: STREET PROJECTS

Project Years: 2019 - 2019

## Project Description

Improvements for developer petitioned projects as identified in a development or subdivision agreement.

## Project Justification

Developers are able, through the agreement process, to petition and assess project costs through the special assessment process. These projects are 100% assessable. An allowance has been accounted for in the overall Community Investment Plan budget and to account for total debt issuance within the bond issue.

## Project Uses

	2019	2020	2021	2022	2023	Total
Development project.	1,000,000	0	0	0	0	1,000,000
<b>Total</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Special Assessments	1,000,000	0	0	0	0	1,000,000
<b>Total</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>

## Project Timeline

This timeline for these projects is specific, and will be developed upon execution of a development or subdivision agreement.

## **Project: Germania Park Redevelopment Phase 1**

Department: STREET PROJECTS

Project Years: 2019 - 2019

### **Project Description**

The Germania Park Capital Improvements Plan (CIP) covers an area of Mankato generally bounded by Riverfront Drive, 1st Avenue, Trunk Highway 14 (TH 14), and the Minnesota River. The existing subsurface of this area is predominantly bedrock, which has limited the development to smaller residential developments and industrial businesses. Most of the city-owned infrastructure is original and dates 50 to 75 years in age, with the exception of Pine Street and a few residential streets on the east side of 3rd Avenue.

In 2011, Short Elliott Hendrickson, Inc. was retained by the City of Mankato to develop a master plan for the Germania Park area. The plan originally envisioned the improvements starting in 2015. Due to funding priorities within the Community Investment Plan these projects were delayed until 2019.

Phase 1 will consist of 6th Avenue from Pine Street to the end, 5th Avenue from Spruce Street to Mills Street, 4th Avenue from Spruce Street to Pine Street, Chestnut Street from 5th Avenue to 3rd Avenue, and Spruce Street from 5th Avenue to 3rd Avenue.

### **Project Justification**

The project area generally has utilities that are 50-75 years old. Sewer is believed to be made of vitrified clay. Vitrified clay is a brittle material susceptible to cracking, joint displacement, root intrusion, and infiltration. The sanitary sewer manholes are of a similar age and likely block or brick built. Due to the age and material build of the sanitary sewer, it is suggested that all sanitary sewer within the project area be reconstructed and replaced with polyvinyl chloride (PVC) pipe. The watermain is most likely made of cast iron, which is susceptible to breaking due to deterioration and freezing conditions in colder weather. It is also 6-inch in diameter, which is undersized compared to current standards. Fire flow in the CIP area was known to be substandard before construction of water main on Cleveland Street in the summer of 2011, due to a lack of water main looping and small pipe sizes.

### **Engagement Strategy**

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	96,086	0	0	0	0	96,086
Construction Contingency	145,585	0	0	0	0	145,585
Engineering	160,143	0	0	0	0	160,143
Sanitary Sewer	293,272	0	0	0	0	293,272
Storm Water	62,997	0	0	0	0	62,997
Street	893,987	0	0	0	0	893,987
Watermain	205,593	0	0	0	0	205,593
<b>Total</b>	<b>1,857,663</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,857,663</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	646,728	0	0	0	0	646,728
Sewer Utility	374,215	0	0	0	0	374,215
Special Assessments	494,000	0	0	0	0	494,000
Stormwater Utility	80,383	0	0	0	0	80,383
Water Utility	262,337	0	0	0	0	262,337
<b>Total</b>	<b>1,857,663</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,857,663</b>

## Project Timeline

January - Feasibility Hearing

February - Assessment Hearing

March - Bid

May - Construction

October - Project Completion

## Project: Madison Avenue - Haefner Drive Roundabout

Department: STREET PROJECTS

Project Years: 2019 - 2019

### Project Description

Property owners in the area of the Madison Avenue and Haefner Drive intersection have requested an improvement to this unsafe intersection. The desire is to preserve full access to Haefner Drive from Madison Avenue while increasing safety. Currently the preferred improvement is a roundabout.

### Project Justification

This project is considered a safety project. Safety is a concern and enough data is present from past accident history and the roundabout study conducted for the City by Spack Consulting which identified the intersection as having 1.49 crashes per million vehicles entering the intersection when compared to the statewide average of 0.26 crashes per million vehicles. The study concluded that a special hazard exists and an improvement is warranted.

### Project Uses

	2019	2020	2021	2022	2023	Total
Bonding	51,724	0	0	0	0	51,724
Construction Cost	683,699	0	0	0	0	683,699
Contingency	78,370	0	0	0	0	78,370
Engineering	86,207	0	0	0	0	86,207
<b>Total</b>	<b>900,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>900,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Blue Earth County	550,000	0	0	0	0	550,000
G.O. Bonding	100,000	0	0	0	0	100,000
Special Assessments	250,000	0	0	0	0	250,000
<b>Total</b>	<b>900,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>900,000</b>

### Project Timeline

Blue Earth County will be the project lead on this project. It is anticipated that engagement will take place in the winter of 2018 with construction beginning in spring of 2019.

## Project: Petition, Expansion and Major Streets

Department: STREET PROJECTS

Project Years: 2019 - 2019

### Project Description

Improvement to minor local roads and alleys. Typically pavement and transportation related.

### Project Justification

Each year the Public Works Department receives request for improvements to the transportation system. Many of these project are local streets, or alleys. This budget line item exists to allow for minor projects that are petitioned to be designed and constructed within a single construction season, out side of the normal Community Investment Plan process.

### Project Uses

	2019	2020	2021	2022	2023	Total
Petition project	450,000	0	0	0	0	450,000
<b>Total</b>	<b>450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>450,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	425,000	0	0	0	0	425,000
<b>Total</b>	<b>425,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>425,000</b>

### Project Timeline

The timeline is project specific and will developed upon receiving the petition.

## Project: Poplar Street - Sibley Parkway to Riverfront Drive

Department: STREET PROJECTS

Project Years: 2019 - 2019

### Project Description

This project will reconstruct Poplar Street from it's southern intersection with South Riverfront Drive to Sibley Parkway. This will include the installation of new sanitary sewer, water main, storm sewer, aggregate base, concrete curb and gutter, bituminous pavement, sidewalk, and end services to each and every lot.

### Project Justification

Most of the utilities date back to 1925 and are deteriorating. Poplar Street was last resurfaced in 1993. The Pavement Condition Index rating is 40. In addition, there is a 30 inch trunk sanitary sewer line serving a majority of west Mankato along this section of Poplar that is in poor shape and in need of replacement. This will provide reliability, capacity, and reduce inflow and infiltration into the system.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	49,431	0	0	0	0	49,431
Construction Contingency	74,896	0	0	0	0	74,896
Engineering	82,385	0	0	0	0	82,385
Sanitary Sewer	299,960	0	0	0	0	299,960
Storm Water	90,281	0	0	0	0	90,281
Street	328,684	0	0	0	0	328,684
Watermain	30,038	0	0	0	0	30,038
<b>Total</b>	<b>955,675</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>955,675</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	210,398	0	0	0	0	210,398
Sewer Utility	382,749	0	0	0	0	382,749
Special Assessments	209,000	0	0	0	0	209,000
Stormwater Utility	115,199	0	0	0	0	115,199
Water Utility	38,329	0	0	0	0	38,329
<b>Total</b>	<b>955,675</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>955,675</b>

## Project Timeline

January - Feasibility Hearing

February - Assessment Hearing

March - Bid

May - Construction

October - Project completion



## Project: Riverfront Drive Demonstration Project

Department: STREET PROJECTS

Project Years: 2019 - 2019

### Project Description

This demonstration project consists of testing the conversion of the four lane section of Riverfront Drive to three lanes from Cherry and Warren streets to Vine Street. The project will consist of temporary traffic control, lane shifts, and other temporary improvements that convert the section to three lanes to determine if traffic assumptions in the Riverfront Drive Corridor study are valid before permanent improvements are planned.

### Project Justification

Identified as part of the Riverfront Drive Corridor Study, the project will address identified pedestrian improvements and traffic calming goals of the Old Town Master Plan and the corridor study.

### Engagement Strategy

Staff is meeting through summer 2018 with Old Town property owners and business owners to discuss project components. In late summer of 2018 a public engagement process will take place that is being coordinated with Public Information to gather input on the project components via a web survey tool. Final options will be determined in the winter of 2018 and readied for implementation in 2019. The web survey tool will be used to solicit feedback once the temporary components are in place.

### Project Uses

	2019	2020	2021	2022	2023	Total
Installation of temporary components	65,000	0	0	0	0	65,000
<b>Total</b>	<b>65,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
City MSA	65,000	0	0	0	0	65,000
<b>Total</b>	<b>65,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65,000</b>

### Project Timeline

2017/2018. Work with property owners and confirm test configuration.

2018. Review final plans and request association/property owner petition

2019. Install for summer months - May - October 1.

## **Project: Shaubut Street**

Department: STREET PROJECTS

Project Years: 2019 - 2019

### **Project Description**

This project will reconstruct Shaubut Street from Byron Street to the western terminus. This will include the installation of new sanitary sewer, water main, storm sewer, aggregate base, concrete curb and gutter, bituminous pavement, sidewalk, and end services to each and every lot. Shaubut Street remains one of the last streets in the Lincoln Park Neighborhood that has not be reconstructed.

### **Project Justification**

Shaubut Street and its utilities date to some of the original development of the Lincoln Park Neighborhood. The aggregate pavement rating of Shaubut Street is 33, which is failing. This project has been proposed for inclusion with the Community Investment Program for several years, but has been delayed due to a combination of other community priorities and the high amount of General Obligation Bond funding needed to complete this project. By reconstructing Shaubut Street and investing in new infrastructure, it is well documented that a city project encourages private property owners to invest in their own property thus benefiting the neighborhood. This project is being proposed within the fiscal constraints of the annual CIP budget. This project is also of a reasonable size that it can be accomplished within one construction season. Access for the residents will be minimally disrupted due to the existence of alleys and side streets. There are no obstacles to completing this project. By completing this project the ability to delivery service to the residents of Shaubut Street will be improved and it will reduce the demand for operational cost in performing costly repairs, especially under an emergency condition.

### **Engagement Strategy**

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	49,890	0	0	0	0	49,890
Construction Contingency	75,591	0	0	0	0	75,591
Engineering	83,150	0	0	0	0	83,150
Sanitary Sewer	161,362	0	0	0	0	161,362
Storm Water	44,748	0	0	0	0	44,748
Street	461,988	0	0	0	0	461,988
Watermain	87,815	0	0	0	0	87,815
<b>Total</b>	<b>964,544</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>964,544</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	521,795	0	0	0	0	521,795
Sewer Utility	161,362	0	0	0	0	161,362
Special Assessments	148,824	0	0	0	0	148,824
Stormwater Utility	44,748	0	0	0	0	44,748
Water Utility	87,815	0	0	0	0	87,815
<b>Total</b>	<b>964,544</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>964,544</b>

## Project Timeline

January - Feasibility Hearing

February - Assessment Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: 2020 Alley Improvements

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

Alleys proposed for improvement as a part of this project included: 13-282, 13-283, 13-284, 13-286, 13-287, 18-106, 18-156, 18-154 A & B, and 18-183.

### Project Justification

In June of 2009, Short Elliott Hendrickson Inc. (SEH) was approved by the City of Mankato to develop an Alley Master Plan to assist in more efficiently programming alley improvements over the next 5 to 10 years. After the 2017 construction year, using the guidelines that were established for the 2009 Alley Master Plan, City Staff drafted an annex to the Alley Plan for years 2018-2022. The alleys in this study are the remainder of the alleys that were identified as a part of the original study that are in need of improvements. The grouping of projects for each year were established through their geographic location to minimize mobilization and increase contractor efficiencies, ensuring minimal disruption to neighborhoods. The projects were also grouped to maintain a consistent per year project cost. After all of the alleys within this appendix to the Master Plan are completed all future alley improvements shall be done through property owner petitions or on an as needed basis for maintenance activities as identified by city staff.

### Engagement Strategy

An informational meeting will be held before the feasibility hearing adjacent property owners.

### Project Uses

	2019	2020	2021	2022	2023	Total
Storm Water	0	31,685	0	0	0	31,685
Street	0	350,117	0	0	0	350,117
<b>Total</b>	<b>0</b>	<b>381,802</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>381,802</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	230,117	0	0	0	230,117
Special Assessments	0	120,000	0	0	0	120,000
Stormwater Utility	0	31,685	0	0	0	31,685
<b>Total</b>	<b>0</b>	<b>381,802</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>381,802</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: 2020 Resurfacing

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

Rehabilitation of pavement on Riverfront Drive from Carney Avenue to the western terminus. This project will replace deficient curb and gutter, pavement and pedestrian facilities. This project also repairs and replaces miscellaneous sidewalk sections throughout the community.

### Project Justification

Riverfront Drive from Carney Avenue to the end carries nearly 6,000 vehicles per day with approximately 40% of them being heavy commercial vehicles. A majority of these heavy commercial vehicles are accessing the CHS facility at the end of the road. The road currently has an aggregate pavement rating of 52. However, due to the nature of the traffic, this roadway can rapidly deteriorate if the condition is allowed to degrade below a rating of 50. A significant portion of the project cost will be born by CHS.

### Engagement Strategy

Staff will meet with property owners prior to the feasibility hearing at an informational meeting. Additionally staff will coordinate traffic closely with the CHS facility to ensure uninterrupted operations.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	0	62,302	0	0	0	62,302
Contingency	0	94,397	0	0	0	94,397
Engineering	0	103,837	0	0	0	103,837
Sanitary Sewer	0	9,750	0	0	0	9,750
Storm water	0	26,936	0	0	0	26,936
Street	0	897,342	0	0	0	897,342
Watermain	0	9,947	0	0	0	9,947
<b>Total</b>	<b>0</b>	<b>1,204,511</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,204,511</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	455,536	0	0	0	455,536
Sewer Utility	0	50,000	0	0	0	50,000
Special Assessments	0	614,606	0	0	0	614,606
Stormwater Utility	0	34,369	0	0	0	34,369
Water Utility	0	50,000	0	0	0	50,000
<b>Total</b>	<b>0</b>	<b>1,204,511</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,204,511</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Start of construction

October - Project Completion



## Project: 2nd Street Warren to Main

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

The proposed improvements for Second Street between Warren Street and Main Street include replacement of sanitary sewer, watermain, storm sewer, end services, aggregate based, concrete curb and gutter, bituminous pavement, sidewalks, landscaping, signal updates, signage and striping.

### Project Justification

Second Street between Warren Street and Main Street has experienced a number of impacts due to utility cuts, both from development and from main breaks. The mains in this area have been subject to galvanic corrosion and it is recommended that they be replaced with PVC pipe to prevent any future disruptions to service. Additionally the pedestrian facilities are continuing to deteriorate. A majority of the sidewalks are paver brick which require an extraordinary standard of care to maintain in an accessible condition. Development along the corridor has continued to generate increased traffic. The increase in vehicular traffic necessitates improvements to aid in safe pedestrian crossings. These complementary needs are best addressed with a full reconstruction project.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	141,610	0	0	0	141,610
Contingency	0	214,561	0	0	0	214,561
Engineering	0	236,017	0	0	0	236,017
Sanitary Sewer	0	188,009	0	0	0	188,009
Storm Water	0	353,072	0	0	0	353,072
Street	0	1,249,533	0	0	0	1,249,533
Watermain	0	355,003	0	0	0	355,003
<b>Total</b>	<b>0</b>	<b>2,737,805</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,737,805</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	237,601	0	0	0	237,601
MSAS	0	862,630	0	0	0	862,630
Sewer Utility	0	239,900	0	0	0	239,900
Special Assessments	0	606,800	0	0	0	606,800
Stormwater Utility	0	337,890	0	0	0	337,890
Water Utility	0	452,984	0	0	0	452,984
<b>Total</b>	<b>0</b>	<b>2,737,805</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,737,805</b>

## Project Timeline

Feasibility hearing - January

Assessment hearing - February

Bid award - March

Begin construction - May

Final completion - September

## Project: Belle Avenue

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

The total reconstruction of Belle Avenue from Long Street to Extension Street. This work will include sanitary sewer, watermain, sewer and water end services, concrete curb and gutter, aggregate base, bituminous pavement, concrete sidewalk, signage and striping.

### Project Justification

This portion of Belle Avenue is one of the final remaining roads in this neighborhood to be reconstructed. The sewer is clay pipe and the water is cast iron pipe dating to the mid-1940's. The roadway as an aggregate pavement rating of 52. In order to ensure reliable uninterrupted service it is recommended that the street and utilities be reconstructed.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	0	39,580	0	0	0	39,580
Contingency	0	59,970	0	0	0	59,970
Engineer	0	65,970	0	0	0	65,970
Sanitary Sewer	0	81,789	0	0	0	81,789
Storm Water	0	59,447	0	0	0	59,447
Street	0	362,299	0	0	0	362,299
Watermain	0	96,169	0	0	0	96,169
<b>Total</b>	<b>0</b>	<b>765,224</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>765,224</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	219,574	0	0	0	219,574
Sewer Utility	0	104,363	0	0	0	104,363
Special Assessments	0	242,720	0	0	0	242,720
Stormwater Utility	0	75,855	0	0	0	75,855
Water Utility	0	122,712	0	0	0	122,712
<b>Total</b>	<b>0</b>	<b>765,224</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>765,224</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Development Project

Department: STREET PROJECTS

Project Years: 2020 - 2020

## Project Description

Improvements for a developer petitioned project as identified in a development or subdivision agreement.

## Project Justification

Developers are able, through the agreement process, to petition and assess project cost through the special assessment process. These projects are 100% assessable. An allowance has been accounted for in the overall Community Investment budget.

## Project Uses

	2019	2020	2021	2022	2023	Total
Development Project	0	1,000,000	0	0	0	1,000,000
<b>Total</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Special Assessments	0	1,000,000	0	0	0	1,000,000
<b>Total</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>

## Project Timeline

A timeline will be developed upon execution of a development or subdividers agreement.

## Project: Germania Park Redevelopment Phase 2

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

The Germania Park Capital Improvements Plan (CIP) covers an area of Mankato generally bounded by Riverfront Drive, 1st Avenue, Trunk Highway 14 (TH 14), and the Minnesota River. The existing subsurface of this area is predominantly bedrock, which has limited the development to smaller residential developments and industrial businesses. Most of the city-owned infrastructure is original and dates 50 to 75 years in age, with the exception of Pine Street and a few residential streets on the east side of 3rd Avenue.

In 2011, Short Elliott Hendrickson, Inc. was retained by the City of Mankato to develop a master plan for the Germania Park area. This plan originally envisioned the improvements starting in 2015. Due to funding priorities within the Community Investment Plan these projects were delayed until 2019.

This project will included improvements on 5th Avenue from the quarry boundary to Spruce Street, 4th Avenue from the quarry boundary to Spruce Street, Maxfield Street from 5th Avenue to 3rd Avenue and Brooks Street from 3rd Avenue to 5th Avenue.

### Project Justification

The project area generally has utilities that are 50-75 years old. Sewer is believed to be made of vitrified clay. Vitrified clay is a brittle material susceptible to cracking, joint displacement, root intrusion, and infiltration. The sanitary sewer manholes are of a similar age and likely block or brick built. Due to the age and material build of the sanitary sewer, it is suggested that all sanitary sewer within the project area be reconstructed and replaced with polyvinyl chloride (PVC) pipe. The watermain is most likely made of cast iron, which is susceptible to breaking due to deterioration and freezing conditions in colder weather. It is also 6-inch in diameter, which is undersized compared to current standards. Fire flow in the CIP area was known to be substandard before construction of water main on Cleveland Street in the summer of 2011, due to a lack of water main looping and small pipe sizes.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	62,586	0	0	0	62,586
Contingency	0	94,828	0	0	0	94,828
Engineering	0	104,310	0	0	0	104,310
Sanitary Sewer	0	98,745	0	0	0	98,745
Storm Water	0	58,786	0	0	0	58,786
Street	0	522,491	0	0	0	522,491
Watermain	0	268,254	0	0	0	268,254
<b>Total</b>	<b>0</b>	<b>1,210,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,210,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	311,000	0	0	0	311,000
Sewer Utility	0	114,000	0	0	0	114,000
Special Assessments	0	428,000	0	0	0	428,000
Stormwater Utility	0	65,000	0	0	0	65,000
Water Utility	0	292,000	0	0	0	292,000
<b>Total</b>	<b>0</b>	<b>1,210,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,210,000</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Glenview Avenue

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

Reconstruction of Glenview Avenue from Glenwood Avenue to Main Street. This project will replace the sanitary sewer, domestic water, and storm sewer mains; curb and gutter; aggregate base; bituminous surfacing; sewer and water services to each and every lot; street lighting; signage.

### Project Justification

Glenview Avenue's utilities date to the early 1940s and are recommended for replacement. Additionally the aggregate pavement rating for the street is 13. The age and condition of the infrastructure is approaching the failure point and replacement is recommended.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	25,780	0	0	0	25,780
Contingency	0	39,060	0	0	0	39,060
Engineering	0	42,966	0	0	0	42,966
Sanitary Sewer	0	71,906	0	0	0	71,906
Storm Water	0	39,053	0	0	0	39,053
Street	0	221,051	0	0	0	221,051
Watermain	0	58,596	0	0	0	58,596
<b>Total</b>	<b>0</b>	<b>498,412</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>498,412</b>



## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	90,101	0	0	0	90,101
Sewer Utility	0	91,752	0	0	0	91,752
Special Assessments	0	191,960	0	0	0	191,960
Stormwater Utility	0	49,831	0	0	0	49,831
Water Utility	0	74,768	0	0	0	74,768
<b>Total</b>	<b>0</b>	<b>498,412</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>498,412</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: MN River Trail Bridge

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

Replace bridge on Mn River Trail

### Project Justification

It has reached the end of its useful life.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	38,793	0	0	0	38,793
Construction	0	587,774	0	0	0	587,774
Contingency	0	58,777	0	0	0	58,777
Engineering	0	64,656	0	0	0	64,656
<b>Total</b>	<b>0</b>	<b>750,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>750,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	600,000	0	0	0	600,000
Grant	0	150,000	0	0	0	150,000
<b>Total</b>	<b>0</b>	<b>750,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>750,000</b>

### Project Timeline

January Design

March Bid

October Completion

## Project: Parkway Ave

Department: STREET PROJECTS

Project Years: 2020 - 2020

## Project Description

Reconstruction of Parkway Avenue from Glenwood Avenue to Rita Road. This project will replace the sanitary sewer, water main, end services, storm sewer, concrete curb and gutter, aggregate base, bituminous pavement, signage and striping.

## Project Justification

Parkway Avenue has suffered from watermain breaks averaging just over 1 per year for the last 5 years. Additionally the road has an aggregate pavement rating of 48 and is continuing to deteriorate. Without major rehabilitation to the road and utilities further deterioration will continue until the point of failure.

## Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	42,809	0	0	0	42,809
Contingency	0	64,862	0	0	0	64,862
Engineering	0	71,348	0	0	0	71,348
Sanitary Sewer	0	96,823	0	0	0	96,823
Storm Water	0	130,975	0	0	0	130,975
Street	0	320,614	0	0	0	320,614
Watermain	0	100,214	0	0	0	100,214
<b>Total</b>	<b>0</b>	<b>827,645</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>827,645</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	168,514	0	0	0	168,514
Sewer Utility	0	123,546	0	0	0	123,546
Special Assessments	0	240,588	0	0	0	240,588
Stormwater Utility	0	167,124	0	0	0	167,124
Water Utility	0	127,873	0	0	0	127,873
<b>Total</b>	<b>0</b>	<b>827,645</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>827,645</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Petition, Expansion and Major Streets

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

Improvement to minor local roads and alleys. Typically pavement and transportation related.

### Project Justification

Each year the Public Works Department receives request for improvements to the transportation system. Many of these project are local streets, or alleys. This budget line item exists to allow for minor projects that are petitioned to be designed and constructed within a single construction season, outside of the normal Community Investment Plan process.

### Project Uses

	2019	2020	2021	2022	2023	Total
Petition Project	0	550,000	0	0	0	550,000
<b>Total</b>	<b>0</b>	<b>550,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>550,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	550,000	0	0	0	550,000
<b>Total</b>	<b>0</b>	<b>550,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>550,000</b>

### Project Timeline

A project schedule will be developed upon receiving the petition.

## Project: Pohl Road and Stadium Road Intersection Improvements

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

The Pohl Road and Stadium Road Intersection improvements is a safety and intersection capacity improvement that will install a roundabout at this intersection. Also included with this project will be pavement rehabilitation on Pohl Road between Balcerzak Drive and Stadium Road. This is in the Long Range Transportation Plan as a short term project. This project will be done in conjunction with Blue Earth County.

### Project Justification

Currently there are 12,100 vehicles per day on Stadium Road and 5,100 vehicles per day on Pohl Road. Stadium Road serves as the principle access to Minnesota State University - Mankato. This intersection also has a crash rate that is above the typical value for a similar intersection and by constructing the roundabout, the crash rate will be reduced by almost 50%.

### Engagement Strategy

An informational meeting will be held for interested members of the public prior to the feasibility hearing in conjunction with Blue Earth County Public Works staff.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	65,788	0	0	0	65,788
Contingency	0	99,678	0	0	0	99,678
Engineering	0	109,646	0	0	0	109,646
Right-of-Way	0	25,000	0	0	0	25,000
Sanitary Sewer	0	4,060	0	0	0	4,060
Storm Water	0	112,479	0	0	0	112,479
Street	0	880,242	0	0	0	880,242
<b>Total</b>	<b>0</b>	<b>1,296,893</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,296,893</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
ATP	0	795,814	0	0	0	795,814
Blue Earth County	0	165,324	0	0	0	165,324
G.O. Bonding	0	196,220	0	0	0	196,220
Special Assessments	0	139,535	0	0	0	139,535
<b>Total</b>	<b>0</b>	<b>1,296,893</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,296,893</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: State Aid Route Lights

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

Install feed point and convert all non-metered lights to LED.

### Project Justification

As a part of the energy savings project performed in 2017 all metered light systems were converted to LED lights. There are some lighting systems that do not have meters at their feedpoints. Once the feed points are metered the remaining street lights operated by the City of Mankato can be converted to LED fixtures.

### Project Uses

	2019	2020	2021	2022	2023	Total
Bonding and Administration	0	12,931	0	0	0	12,931
Construction	0	195,925	0	0	0	195,925
Contingency	0	19,592	0	0	0	19,592
Engineering	0	21,552	0	0	0	21,552
<b>Total</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
MSAS	0	250,000	0	0	0	250,000
<b>Total</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

### Project Timeline

January - Design

February - Feasibility hearing



## Project: 2021 Alley Improvements

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

Pavement and drainage improvements will be made to Alleys: 13-304, 13-302, 13-153,13-176, 13-177, 13-103, 13-127, 13-102.

### Project Justification

In June of 2009, Short Elliott Hendrickson Inc. (SEH) was approved by the City of Mankato to develop an Alley Master Plan to assist in more efficiently programming alley improvements over the next 5 to 10 years. After the 2017 construction year, using the guidelines that were established for the 2009 Alley Master Plan, City Staff drafted an annex to the Alley Plan for years 2018-2022. The alleys in this study are the remainder of the alleys that were identified as a part of the original study that are in need of improvements. The grouping of projects for each year were established through their geographic location to minimize mobilization and increase contractor efficiencies, ensuring minimal disruption to neighborhoods. The projects were also grouped to maintain a consistent per year project cost. After all of the alleys within this appendix to the Master Plan are completed all future alley improvements shall be done through property owner petitions or on an as needed basis for maintenance activities as identified by city staff.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	0	0	16,115	0	0	16,115
Construction Contingency	0	0	24,417	0	0	24,417
Engineering	0	0	26,859	0	0	26,859
Storm Water	0	0	32,658	0	0	32,658
Street	0	0	211,519	0	0	211,519
<b>Total</b>	<b>0</b>	<b>0</b>	<b>311,568</b>	<b>0</b>	<b>0</b>	<b>311,568</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	154,218	0	0	154,218
Special Assessments	0	0	115,680	0	0	115,680
Stormwater Utility	0	0	41,670	0	0	41,670
<b>Total</b>	<b>0</b>	<b>0</b>	<b>311,568</b>	<b>0</b>	<b>0</b>	<b>311,568</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: 2021 Pavement Rehabilitation

Department: STREET PROJECTS

Project Years: 2021 - 2021

## Project Description

Rehabilitation of pavement on various streets in Mankato

## Project Justification

Periodic renewal and improvement of pavement section on various streets is needed to maintain high quality surface transportation network in the City of Mankato. Streets to be evaluated on an annual basis.

## Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2019	2020	2021	2022	2023	Total
Bonding	0	0	39,311	0	0	39,311
Construction Cost	0	0	595,611	0	0	595,611
Contingency	0	0	59,561	0	0	59,561
Engineering	0	0	65,517	0	0	65,517
<b>Total</b>	<b>0</b>	<b>0</b>	<b>760,000</b>	<b>0</b>	<b>0</b>	<b>760,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	350,000	0	0	350,000
Sewer Utility	0	0	50,000	0	0	50,000
Special Assessments	0	0	300,000	0	0	300,000
Stormwater Utility	0	0	10,000	0	0	10,000
Water Utility	0	0	50,000	0	0	50,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>760,000</b>	<b>0</b>	<b>0</b>	<b>760,000</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: 2nd Street Plum to Madison

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

Reconstruction of Second Street from Plum Street to Madison Avenue. This project will included installing new sanitary sewer, watermain, storm sewer, concrete curb and gutter, aggregate base, bituminous pavement, sidewalks, signage and striping. This project may also include additional pedestrian crossing safety improvements or intersection control improvements.

### Project Justification

With the connection of the Veterans Memorial Bridge and Mulberry Street to Second Street traffic volumes have increased on Second Street. It is necessary to reconstruct the road to accommodate the increased traffic, while providing for safe pedestrian movements. As activity grows in the Old Town corridor it is necessary to have a secondary route for both motorized and non-motorized traffic. Additionally with the anticipated reconstruction of Riverfront Drive in 2022, Second Street will be a critical component of the transportation system during that project.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	0	132,101	0	0	132,101
Contingency	0	0	200,154	0	0	200,154
Engineering	0	0	220,169	0	0	220,169
Sanitary Sewer	0	0	381,814	0	0	381,814
Storm Water	0	0	182,941	0	0	182,941
Street	0	0	1,119,215	0	0	1,119,215
Watermain	0	0	317,572	0	0	317,572
<b>Total</b>	<b>0</b>	<b>0</b>	<b>2,553,966</b>	<b>0</b>	<b>0</b>	<b>2,553,966</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	376,000	0	0	376,000
MSAS	0	0	298,518	0	0	298,518
Sewer Utility	0	0	487,194	0	0	487,194
Special Assessments	0	0	753,600	0	0	753,600
Stormwater Utility	0	0	233,432	0	0	233,432
Water Utility	0	0	405,222	0	0	405,222
<b>Total</b>	<b>0</b>	<b>0</b>	<b>2,553,966</b>	<b>0</b>	<b>0</b>	<b>2,553,966</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Development Project

Department: STREET PROJECTS

Project Years: 2021 - 2021

## Project Description

Improvements for a developer petitioned project as identified in a development or subdivision agreement.

## Project Justification

Developers are able, through the agreement process, to petition and assess project cost through the special assessment process. These projects are 100% assessable. An allowance has been accounted for in the overall Community Investment budget.

## Project Uses

	2019	2020	2021	2022	2023	Total
Development Project	0	0	1,000,000	0	0	1,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Special Assessments	0	0	1,000,000	0	0	1,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>

## Project Timeline

A timeline will be developed once a development or subdivision agreement is executed.

## Project: Germania Park Redevelopment Phase 3

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

The Germania Park Capital Improvements Plan (CIP) covers an area of Mankato generally bounded by Riverfront Drive, 1st Avenue, Trunk Highway 14 (TH 14), and the Minnesota River. The existing subsurface of this area is predominantly bedrock, which has limited the development to smaller residential developments and industrial businesses. Most of the city-owned infrastructure is original and dates 50 to 75 years in age, with the exception of Pine Street and a few residential streets on the east side of 3rd Avenue.

In 2011, Short Elliott Hendrickson, Inc. was retained by the City of Mankato to develop a master plan for the Germania Park area. This plan originally envisioned the improvements starting in 2015. Due to funding priorities within the Community Investment Plan these projects were delayed until 2019.

The proposed improvements for 2021 include: Harper Street from 8th Avenue to 3rd Avenue; 7th Avenue from Harper Street to the end; and 5th Avenue from Brooks Street to Harper Street.

### Project Justification

The project area generally has utilities that are 50-75 years old. Sewer is believed to be made of vitrified clay. Vitrified clay is a brittle material susceptible to cracking, joint displacement, root intrusion, and infiltration. The sanitary sewer manholes are of a similar age and likely block or brick built. Due to the age and material build of the sanitary sewer, it is suggested that all sanitary sewer within the project area be reconstructed and replaced with polyvinyl chloride (PVC) pipe. The watermain is most likely made of cast iron, which is susceptible to breaking due to deterioration and freezing conditions in colder weather. It is also 6-inch in diameter, which is undersized compared to current standards. Fire flow in the CIP area was known to be substandard before construction of water main on Cleveland Street in the summer of 2011, due to a lack of water main looping and small pipe sizes.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.



## Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	0	63,155	0	0	63,155
Contingency	0	0	95,690	0	0	95,690
Engineering	0	0	105,259	0	0	105,259
Sanitary Sewer	0	0	230,902	0	0	230,902
Storm Water	0	0	60,623	0	0	60,623
Street	0	0	422,845	0	0	422,845
Watermain	0	0	242,526	0	0	242,526
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,221,000</b>	<b>0</b>	<b>0</b>	<b>1,221,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	277,000	0	0	277,000
Sewer Utility	0	0	226,000	0	0	226,000
Special Assessments	0	0	410,000	0	0	410,000
Stormwater Utility	0	0	65,000	0	0	65,000
Water Utility	0	0	243,000	0	0	243,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,221,000</b>	<b>0</b>	<b>0</b>	<b>1,221,000</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Gwyn Drive Reconstruction

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

There will be a total reconstruction of Gwyn Drive. Resurface is included in that, along with replacing the watermain, storm and sewer systems.

### Project Justification

The systems are extremely old dating back to 1940s and are in need of replacement. The aggregate pavement rating is 54. While Gwyn Drive is generally a local road, it does see increased traffic as it serves as the primary access to the community of Skyline.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	0	0	21,273	0	0	21,273
Construction Contingency	0	0	32,232	0	0	32,232
Engineering	0	0	35,455	0	0	35,455
Sanitary Sewer	0	0	60,734	0	0	60,734
Storm Water	0	0	18,626	0	0	18,626
Street	0	0	180,068	0	0	180,068
Watermain	0	0	62,891	0	0	62,891
<b>Total</b>	<b>0</b>	<b>0</b>	<b>411,278</b>	<b>0</b>	<b>0</b>	<b>411,278</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	120,400	0	0	120,400
Sewer Utility	0	0	70,451	0	0	70,451
Special Assessments	0	0	110,085	0	0	110,085
Stormwater Utility	0	0	37,389	0	0	37,389
Water Utility	0	0	72,953	0	0	72,953
<b>Total</b>	<b>0</b>	<b>0</b>	<b>411,278</b>	<b>0</b>	<b>0</b>	<b>411,278</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Petition, Expansion and Major Streets

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

Improvement to minor local roads and alleys. Typically pavement and transportation related.

### Project Justification

Each year the Public Works Department receives request for improvements to the transportation system. Many of these project are local streets, or alleys. This budget line item exists to allow for minor projects that are petitioned to be designed and constructed within a single construction season, outside of the normal Community Investment Plan process.

### Project Uses

	2019	2020	2021	2022	2023	Total
Petition Project	0	0	250,000	0	0	250,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	250,000	0	0	250,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

### Project Timeline

A timeline will be developed upon receiving.

## Project: TH 169/Owatonna Street Signal Revisions

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

Replacement of existing signal system at the intersection of TH 169 ramps and Owatonna Street.

### Project Justification

This improvement was identified both the Mankato Area Planning Organization Long Range Transportation Plan and the Riverfront Drive Corridor Study. This project will replace the signals at the TH 169 Ramps at Owatonna Street and Riverfront Drive. This will allow for the installation triple left turn lanes a aid in reducing the AM Peak. This is especially evident with the south-bound TH 169 movement to eastbound Riverfront Drive. Over 670 vehicles make this left-turn today in the AM peak hour and this number is anticipated to rise to 860 by 2041.

### Project Uses

	2019	2020	2021	2022	2023	Total
New Signal System	0	0	370,000	0	0	370,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>370,000</b>	<b>0</b>	<b>0</b>	<b>370,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
MnDOT	0	0	185,000	0	0	185,000
MSAS	0	0	185,000	0	0	185,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>370,000</b>	<b>0</b>	<b>0</b>	<b>370,000</b>

### Project Timeline

This project will be lead by MnDOT and a schedule will be developed at the project approaches.

## Project: Tile Street

Department: STREET PROJECTS

Project Years: 2021 - 2021

## Project Description

Complete reconstruction on Tile Street from West 11th Street to West 8th Street is necessary. Replacing the pavement, installing new utilities, putting in new curb, gutter, sidewalk, driveway and alley aprons.

## Project Justification

Most of the utilities are from the original install date of the 1920s, showing outdated pipes and deteriorating systems. Along with the road being constructed in that same time period and being in poor conditions. The aggregate pavement rating for Tile Street is 25. Tile street remain one of the few areas in west Mankato where major reconstruction has not been completed.

## Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	0	0	51,492	0	0	51,492
Construction Contingency	0	0	78,019	0	0	78,019
Engineering	0	0	85,821	0	0	85,821
Sanitary Sewer	0	0	163,507	0	0	163,507
Storm Water	0	0	98,936	0	0	98,936
Street	0	0	376,946	0	0	376,946
Watermain	0	0	140,800	0	0	140,800
<b>Total</b>	<b>0</b>	<b>0</b>	<b>995,521</b>	<b>0</b>	<b>0</b>	<b>995,521</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	389,745	0	0	389,745
Sewer Utility	0	0	163,507	0	0	163,507
Special Assessments	0	0	202,533	0	0	202,533
Stormwater Utility	0	0	98,936	0	0	98,936
Water Utility	0	0	140,800	0	0	140,800
<b>Total</b>	<b>0</b>	<b>0</b>	<b>995,521</b>	<b>0</b>	<b>0</b>	<b>995,521</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Warren Street

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

The reconstruction of Warren Street from Glenwood Avenue to Riverfront Drive. The project will install new sanitary sewer, watermain, storm sewer, concrete curb and gutter, aggregate base, bituminous pavement sidewalks, end services, signage, striping and signals. The road section installed will be dependent on the outcome of the Warren Street Corridor conducted in 2019 or 2020 by the Mankato Area Planning Organization Study.

### Project Justification

This segment of Warren Street currently has over 9000 vehicles per day traveling along it. It was originally a concrete street that was overlaid in 2007 with bituminous pavement. The aggregate pavement rating is 53 and is continuing to deteriorate. Additionally a major sanitary sewer line dating to the late 1930's is in this segment of Warren Street and is reaching the end of its life. This sewer line provides service to all of the area south of Balcerzak Drive and west of Pohl Road. This is highly critical infrastructure that will require proactive preservation activities to prevent failure and unscheduled emergency maintenance.

### Engagement Strategy

A corridor study will be performed by the Mankato Area Planning Organization in 2019 or 2020. As a part of this study a robust public engagement process will be conducted. Additionally as the project nears construction an informational meeting will be held with the adjacent property owners prior to the feasibility hearing.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	0	177,680	0	0	177,680
Contingency	0	0	269,212	0	0	269,212
Engineering	0	0	296,133	0	0	296,133
Sanitary Sewer	0	0	538,747	0	0	538,747
Storm Water	0	0	207,346	0	0	207,346
Street	0	0	1,739,246	0	0	1,739,246
Watermain	0	0	206,785	0	0	206,785
<b>Total</b>	<b>0</b>	<b>0</b>	<b>3,435,149</b>	<b>0</b>	<b>0</b>	<b>3,435,149</b>



## Funding and Sources

	2019	2020	2021	2022	2023	Total
City MSA	0	0	1,100,000	0	0	1,100,000
G.O. Bonding	0	0	431,981	0	0	431,981
Sewer Utility	0	0	687,441	0	0	687,441
Special Assessments	0	0	687,297	0	0	687,297
Stormwater Utility	0	0	264,573	0	0	264,573
Water Utility	0	0	263,857	0	0	263,857
<b>Total</b>	<b>0</b>	<b>0</b>	<b>3,435,149</b>	<b>0</b>	<b>0</b>	<b>3,435,149</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: 2022 Alley Improvements

Department: STREET PROJECTS

Project Years: 2022 - 2022

### Project Description

Pavement and drainage improvements of the following alleys in the Lincoln Park Neighborhood: 13-404,13-477, 13-478, 13-437 E/W, 13-437 N/S, 18-303, 18-304, 18-305, 18-328A

### Project Justification

In June of 2009, Short Elliott Hendrickson Inc. (SEH) was approved by the City of Mankato to develop an Alley Master Plan to assist in more efficiently programming alley improvements over the next 5 to 10 years. After the 2017 construction year, using the guidelines that were established for the 2009 Alley Master Plan, City Staff drafted an annex to the Alley Plan for years 2018-2022. The alleys in this study are the remainder of the alleys that were identified as a part of the original study that are in need of improvements. The grouping of projects for each year were established through their geographic location to minimize mobilization and increase contractor efficiencies, ensuring minimal disruption to neighborhoods. The projects were also grouped to maintain a consistent per year project cost. After all of the alleys within this appendix to the Master Plan are completed all future alley improvements shall be done through property owner petitions or on an as needed basis for maintenance activities as identified by city staff.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	0	0	0	18,479	0	18,479
Construction Contingency	0	0	0	27,999	0	27,999
Engineering	0	0	0	30,799	0	30,799
Storm Water	0	0	0	33,445	0	33,445
Street	0	0	0	246,547	0	246,547
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>357,270</b>	<b>0</b>	<b>357,270</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	0	222,194	0	222,194
Special Assessments	0	0	0	92,400	0	92,400
Stormwater Utility	0	0	0	42,676	0	42,676
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>357,270</b>	<b>0</b>	<b>357,270</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: Adams Street - CSAH 12 to CSAH 17

Department: STREET PROJECTS

Project Years: 2022 - 2022

### Project Description

This project completes the Adams Street corridor by constructing the final phase from CSAH 12 to CSAH 17. This project will be primarily funded by assessments for private development, but will have some city contribution to account for the trunk sewer and any additional road improvements beyond what would be necessary for a standard industrial subdivision.

### Project Justification

This project will complete the trunk sewer connection to the new interconnection point with Eagle Lake at CSAH 17 and Adams Street. This will allow Eagle Lake to abandon over 6,000 feet of sanitary sewer force main that is in unknown to poor condition. This project will also complete the development of the industrial property in the area.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	0	0	0	248,874	0	248,874
Construction Contingency	0	0	0	377,082	0	377,082
Engineering	0	0	0	414,790	0	414,790
Sanitary Sewer	0	0	0	580,135	0	580,135
Storm Water	0	0	0	338,405	0	338,405
Street	0	0	0	2,646,786	0	2,646,786
Watermain	0	0	0	205,496	0	205,496
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,811,569</b>	<b>0</b>	<b>4,811,569</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	0	462,178	0	462,178
Sewer Utility	0	0	0	464,108	0	464,108
Special Assessments	0	0	0	3,885,283	0	3,885,283
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,811,569</b>	<b>0</b>	<b>4,811,569</b>

### Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Broad Street - Warren Street To Main Street

Department: STREET PROJECTS

Project Years: 2022 - 2022

### Project Description

Reconstruction of Broad Street from Warren Street to Main Street. This project will include sanitary sewer, watermain, storm drain aggregate base, bituminous pavement, curb and gutter, sidewalk and end services to each and every lot.

### Project Justification

This project will renew the trunk sanitary sewer that serves a large area of the southeast portion of the city. Additionally it will allow for pavement renewal and allow for right sizing the road to provide the appropriate amount of pavement for the desired level of traffic in the neighborhood. The sanitary sewer in Broad Street dates to the original installation of sewer in Mankato and is in need of an update to ensure reliable uninterrupted service to customers. The sewer shed for this pipe extends to Minnesota State University - Mankato, Pohl Road and the southern city limits. Additionally portions of the watermain in Broad Street date to the late 1800's and needs to be replaced to ensure reliable uninterrupted service to customers.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	0	0	0	205,471	0	205,471
Construction Contingency	0	0	0	311,320	0	311,320
Engineering	0	0	0	342,452	0	342,452
Sanitary Sewer	0	0	0	698,803	0	698,803
Storm Water	0	0	0	465,572	0	465,572
Street	0	0	0	1,709,336	0	1,709,336
Watermain	0	0	0	239,494	0	239,494
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,972,448</b>	<b>0</b>	<b>3,972,448</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	0	715,503	0	715,503
MSAS	0	0	0	721,495	0	721,495
Sewer Utility	0	0	0	891,672	0	891,672
Special Assessments	0	0	0	744,115	0	744,115
Stormwater Utility	0	0	0	594,069	0	594,069
Water Utility	0	0	0	305,594	0	305,594
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,972,448</b>	<b>0</b>	<b>3,972,448</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

## Project: Development Project

Department: STREET PROJECTS

Project Years: 2022 - 2022

## Project Description

Improvements for a developer petitioned project as identified in a development or subdivision agreement.

## Project Justification

Developers are able, through the agreement process, to petition and assess project cost through the special assessment process. These projects are 100% assessable. An allowance has been accounted for in the overall Community Investment budget.

## Project Uses

	2019	2020	2021	2022	2023	Total
Development Project	0	0	0	1,000,000	0	1,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>1,000,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Special Assessments	0	0	0	1,000,000	0	1,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>1,000,000</b>

## Project Timeline

A timeline will be developed upon execution of a development or subdividers agreement.



## **Project: Germania Park Redevelopment Phase 4**

Department: STREET PROJECTS

Project Years: 2022 - 2022

### **Project Description**

The Germania Park Capital Improvements Plan (CIP) covers an area of Mankato generally bounded by Riverfront Drive, 1st Avenue, Trunk Highway 14 (TH 14), and the Minnesota River. The existing subsurface of this area is predominantly bedrock, which has limited the development to smaller residential developments and industrial businesses. Most of the city-owned infrastructure is original and dates 50 to 75 years in age, with the exception of Pine Street and a few residential streets on the east side of 3rd Avenue.

In 2011, Short Elliott Hendrickson, Inc. was retained by the City of Mankato to develop a master plan for the Germania Park area. This plan originally envisioned the improvements starting in 2015. Due to funding priorities within the Community Investment Plan these projects were delayed until 2019.

The roads proposed for improvement in 2022 include: 6th Avenue from Harper Street to Cleveland Street; 5th Avenue from Harper Street to Cleveland Street; 4th Avenue from Harper Street to Lind Street; and Lind Street from 6th Avenue to 3rd Avenue.

### **Project Justification**

The project area generally has utilities that are 50-75 years old. Sewer is believed to be made of vitrified clay. Vitrified clay is a brittle material susceptible to cracking, joint displacement, root intrusion, and infiltration. The sanitary sewer manholes are of a similar age and likely block or brick built. Due to the age and material build of the sanitary sewer, it is suggested that all sanitary sewer within the project area be reconstructed and replaced with polyvinyl chloride (PVC) pipe. The watermain is most likely made of cast iron, which is susceptible to breaking due to deterioration and freezing conditions in colder weather. It is also 6-inch in diameter, which is undersized compared to current standards. Fire flow in the CIP area was known to be substandard before construction of water main on Cleveland Street in the summer of 2011, due to a lack of water main looping and small pipe sizes.

### **Engagement Strategy**

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	0	0	56,069	0	56,069
Contingency	0	0	0	84,953	0	84,953
Engineering	0	0	0	93,448	0	93,448
Sanitary Sewer	0	0	0	69,821	0	69,821
Stormwater	0	0	0	58,571	0	58,571
Street	0	0	0	582,884	0	582,884
Watermain	0	0	0	138,254	0	138,254
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,084,000</b>	<b>0</b>	<b>1,084,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	0	313,000	0	313,000
Sewer Utility	0	0	0	75,000	0	75,000
Special Assessments	0	0	0	481,000	0	481,000
Stormwater Utility	0	0	0	65,000	0	65,000
Water Utility	0	0	0	150,000	0	150,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,084,000</b>	<b>0</b>	<b>1,084,000</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Pavement Rehabilitation

Department: STREET PROJECTS

Project Years: 2022 - 2022

## Project Description

Rehabilitation of pavement on various streets in Mankato

## Project Justification

Periodic renewal and improvement of pavement section on various streets is needed to maintain high quality surface transportation network in the City of Mankato. Streets to be evaluated on an annual basis.

## Engagement Strategy

An informational meeting will be held prior to the feasibility hearing.

## Project Uses

	2019	2020	2021	2022	2023	Total
Bonding	0	0	0	47,069	0	47,069
Construction Cost	0	0	0	713,166	0	713,166
Contingency	0	0	0	71,317	0	71,317
Engineering	0	0	0	78,448	0	78,448
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>910,000</b>	<b>0</b>	<b>910,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	0	500,000	0	500,000
Sewer Utility	0	0	0	50,000	0	50,000
Special Assessments	0	0	0	300,000	0	300,000
Stormwater Utility	0	0	0	10,000	0	10,000
Water Utility	0	0	0	50,000	0	50,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>910,000</b>	<b>0</b>	<b>910,000</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: Petition, Expansion and Major Streets

Department: STREET PROJECTS

Project Years: 2022 - 2022

### Project Description

Improvement to minor local roads and alleys. Typically pavement and transportation related.

### Project Justification

Each year the Public Works Department receives request for improvements to the transportation system. Many of these project are local streets, or alleys. This budget line item exists to allow for minor projects that are petitioned to be designed and constructed within a single construction season, outside of the normal Community Investment Plan process.

### Project Uses

	2019	2020	2021	2022	2023	Total
Petition Project	0	0	0	368,000	0	368,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>368,000</b>	<b>0</b>	<b>368,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	0	368,000	0	368,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>368,000</b>	<b>0</b>	<b>368,000</b>

### Project Timeline

A timeline will be developed upon receipt of a petition.

## Project: Riverfront Drive Main to Madison

Department: STREET PROJECTS

Project Years: 2022 - 2022

### Project Description

Reconstruction of Riverfront Drive from Main Street to Madison Avenue. This project will reconstruct the surface improvements. The proposed improvements would be the result of the Riverfront Drive demonstration project performed in 2019 as well as other project components identified in the Old Town Masterplan and the Riverfront Drive Corridor Study.

### Project Justification

Riverfront Drive pavement and sidewalks were installed in 1983 and overlaid in 2007. Recent excavation in the pavement have shown that the concrete pavement is reaching the end of its useful life and will need to be replaced. Additionally, the pedestrian facilities are not ADA compliant. In order to bring the pedestrian facilities into compliance portions of the road will need to be regraded due to the lack of a boulevard and the zero setbacks along the corridor. Additionally pedestrian safety crossing improvements are necessary to connect public parking areas with destinations.

### Engagement Strategy

Several public hearings will be held prior to the start of design of this project in 2021. The schedule and scope of the meetings will be developed as the project approaches. Once a final design is set an informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	0	0	241,622	0	241,622
Contingency	0	0	0	366,094	0	366,094
Engineering	0	0	0	402,702	0	402,702
Sanitary Sewer	0	0	0	181,111	0	181,111
Stormwater	0	0	0	255,529	0	255,529
Street	0	0	0	2,829,961	0	2,829,961
Watermain	0	0	0	394,337	0	394,337
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,671,356</b>	<b>0</b>	<b>4,671,356</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	0	411,902	0	411,902
MSAS	0	0	0	2,171,614	0	2,171,614
Sewer Utility	0	0	0	231,098	0	231,098
Special Assessments	0	0	0	1,027,513	0	1,027,513
Stormwater Utility	0	0	0	326,055	0	326,055
Water Utility	0	0	0	503,174	0	503,174
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,671,356</b>	<b>0</b>	<b>4,671,356</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Development Projects

Department: STREET PROJECTS

Project Years: 2023 - 2023

### Project Description

Improvements for a developer petitioned project as identified in a development or subdivision agreement.

### Project Justification

Developers are able, through the agreement process, to petition and assess project cost through the special assessment process. These projects are 100% assessable. An allowance has been accounted for in the overall Community Investment budget.

### Project Uses

	2019	2020	2021	2022	2023	Total
Development Project	0	0	0	0	1,000,000	1,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>	<b>1,000,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Special Assessments	0	0	0	0	1,000,000	1,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>	<b>1,000,000</b>

### Project Timeline

Developed upon execution of agreement



## **Project: Germania Park Phase 5**

Department: STREET PROJECTS

Project Years: 2023 - 2023

### **Project Description**

The reconstruction of 8th Avenue from Harper Street to Cleveland Street; 7th Avenue from Harper Street to Cleveland Street; Lind Street from 8th Avenue to 6th Avenue; Cleveland Street from 8th Avenue and 7th Avenue.

The Germania Park Capital Improvements Plan (CIP) covers an area of Mankato generally bounded by Riverfront Drive, 1st Avenue, Trunk Highway 14 (TH 14), and the Minnesota River. The existing subsurface of this area is predominantly bedrock, which has limited the development to smaller residential developments and industrial businesses. Most of the city-owned infrastructure is original and dates 50 to 75 years in age, with the exception of Pine Street and a few residential streets on the east side of 3rd Avenue.

In 2011, Short Elliott Hendrickson, Inc. was retained by the City of Mankato to develop a master plan for the Germania Park area. This plan originally envisioned the improvements starting in 2015. Due to funding priorities within the Community Investment Plan these projects were delayed until 2019.

### **Project Justification**

The project area generally has utilities that are 50-75 years old. Sewer is believed to be made of vitrified clay. Vitrified clay is a brittle material susceptible to cracking, joint displacement, root intrusion, and infiltration. The sanitary sewer manholes are of a similar age and likely block or brick built. Due to the age and material build of the sanitary sewer, it is suggested that all sanitary sewer within the project area be reconstructed and replaced with polyvinyl chloride (PVC) pipe. The watermain is most likely made of cast iron, which is susceptible to breaking due to deterioration and freezing conditions in colder weather. It is also 6-inch in diameter, which is undersized compared to current standards.

### **Engagement Strategy**

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	0	0	0	64,759	64,759
Contingency	0	0	0	0	98,120	98,120
Engineering	0	0	0	0	107,932	107,932
Sanitary sewer	0	0	0	0	135,697	135,697
Stormwater	0	0	0	0	88,743	88,743
Streets	0	0	0	0	670,301	670,301
Watermain	0	0	0	0	86,458	86,458
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,252,010</b>	<b>1,252,010</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	0	0	449,255	449,255
Sewer Utility	0	0	0	0	95,381	95,381
Special Assessments	0	0	0	0	462,000	462,000
Stormwater Utility	0	0	0	0	95,700	95,700
Water Utility	0	0	0	0	149,674	149,674
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,252,010</b>	<b>1,252,010</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Hubbel Street

Department: STREET PROJECTS

Project Years: 2023 - 2023

## Project Description

The reconstruction of Hubbel Street from Riverfront Drive to Sibley Parkway.

## Project Justification

The sanitary sewer and watermain system are original to the construction of the neighborhood and date to the 1930s. In recent years it has been found that some lots do not have conforming sanitary sewer service and the only way to provide compliant service is through reconstruction of the road. The road also suffers from drainage problems at the location of the rail road crossing.

## Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2019	2020	2021	2022	2023	Total
Hubbel Street reconstruction	0	0	0	0	1,614,815	1,614,815
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,614,815</b>	<b>1,614,815</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	0	0	393,321	393,321
Sewer Utility	0	0	0	0	289,099	289,099
Special Assessments	0	0	0	0	464,515	464,515
Stormwater Utility	0	0	0	0	217,507	217,507
Water Utility	0	0	0	0	250,373	250,373
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,614,815</b>	<b>1,614,815</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Pavement Rehabilitation

Department: STREET PROJECTS

Project Years: 2023 - 2023

## Project Description

Rehabilitation of pavement on various streets in Mankato

## Project Justification

Periodic renewal and improvement of pavement section on various streets is needed to maintain high quality surface transportation network in the City of Mankato. Streets to be evaluated on an annual basis.

## Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2019	2020	2021	2022	2023	Total
Pavement Rehabilitation	0	0	0	0	935,000	935,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>935,000</b>	<b>935,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	0	0	525,000	525,000
Sewer Utility	0	0	0	0	50,000	50,000
Special Assessments	0	0	0	0	300,000	300,000
Stormwater Utility	0	0	0	0	10,000	10,000
Water Utility	0	0	0	0	50,000	50,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>935,000</b>	<b>935,000</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Petition, Expansion and Major Streets

Department: STREET PROJECTS

Project Years: 2023 - 2023

### Project Description

Improvement to minor local roads and alleys. Typically pavement and transportation related.

### Project Justification

Each year the Public Works Department receives request for improvements to the transportation system. Many of these project are local streets, or alleys. This budget line item exists to allow for minor projects that are petitioned to be designed and constructed within a single construction season, outside of the normal Community Investment Plan process.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2019	2020	2021	2022	2023	Total
Petition Project	0	0	0	0	800,000	800,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>800,000</b>	<b>800,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	0	0	800,000	800,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>800,000</b>	<b>800,000</b>

### Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion



## Project: Rita Road

Department: STREET PROJECTS

Project Years: 2023 - 2023

## Project Description

The reconstruction of Rita Road from Monks Avenue to End

## Project Justification

The pavement and utilities need replacement and the road remains one of the few without under drain.

## Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	0	0	0	0	83,634	83,634
Contingency	0	0	0	0	126,718	126,718
Engineering	0	0	0	0	139,392	139,392
Sanitary Sewer	0	0	0	0	196,258	196,258
Storm Water	0	0	0	0	183,094	183,094
Streets	0	0	0	0	709,981	709,981
Watermain	0	0	0	0	177,852	177,852
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,616,929</b>	<b>1,616,929</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
G.O. Bonding	0	0	0	0	347,472	347,472
Sewer Utility	0	0	0	0	250,425	250,425
Special Assessments	0	0	0	0	558,464	558,464
Stormwater Utility	0	0	0	0	233,628	233,628
Water Utility	0	0	0	0	226,940	226,940
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,616,929</b>	<b>1,616,929</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion



# Capital Replacement





# **PUBLIC SAFETY FIRE EQUIPMENT**



## Cash Flow

	2019	2020	2021	2022	2023	Total
Fund Balance	\$117,599.00	\$145,099.00				
Transfer-In	\$27,500.00	\$27,500.00	\$27,500.00	\$27,500.00	\$27,500.00	
Available Funds	\$145,099.00	\$172,599.00	\$27,500.00	\$27,500.00	\$27,500.00	
Project Name	2019	2020	2021	2022	2023	Total
Replace ARMER radios		-\$95,333.00	-\$95,333.00	-\$95,333.00		-\$285,999.00
Turnout Gear Washer/Dryer			-\$17,000.00			-\$17,000.00
Total	\$0.00	-\$95,333.00	-\$112,333.00	-\$95,333.00	\$0.00	-\$302,999.00
Fund Balance	\$145,099.00	\$77,266.00	-\$84,833.00	-\$67,833.00	\$27,500.00	

## C2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Replace ARMER radios	2020	95,333
Subtotal		95,333
Total		95,333

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Replace ARMER radios	2021	95,333
Turnout gear washer/dryer	2021	17,000
Subtotal		112,333
Total		112,333

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Replace ARMER radios	2022	95,333
Subtotal		95,333
Total		95,333

## Project: Replace ARMER radios

Department: PUBLIC SAFETY FIRE EQUIPMENT

Project Years: 2020 - 2022

## Project Description

Replace Public Safety portable and mobile communication radios.

## Project Justification

Motorola issued a notice in 2014 that our current radios have reached their "end of life". They will discontinue servicing these models at the end of 2019. A plan was initiated to set aside funds to prepare for replacing this equipment without a lapse in service. Beginning in 2020, we should replace 1/3 of our radios annually for three years with the comparable, current model.

65 portable radios x \$3600 = \$234,000.

13 mobile radios x \$4000 = \$52,000.

Total \$286,000.

## Engagement Strategy

Demonstrate use at Public Safety CIP project open house.

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2019	2020	2021	2022	2023	Total
Radio purchase	0	95,333	95,333	95,333	0	285,999
<b>Total</b>	<b>0</b>	<b>95,333</b>	<b>95,333</b>	<b>95,333</b>	<b>0</b>	<b>285,999</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
General Fund	0	95,333	95,333	95,333	0	285,999
<b>Total</b>	<b>0</b>	<b>95,333</b>	<b>95,333</b>	<b>95,333</b>	<b>0</b>	<b>285,999</b>



## Project Timeline

January, 2020: Replace 1/3 of radios

January, 2021: Replace 1/3 of radios

January, 2022: Replace 1/3 of radios

## Project: Turnout gear washer/dryer

Department: PUBLIC SAFETY FIRE EQUIPMENT

Project Years: 2021 - 2021

### Project Description

Replace fire safety (turnout) gear washer and dryer at fire station #3.

### Project Justification

The turnout gear washer and dryer were purchased when station #3 was built in 1994. After nearly 25 years of use, they are beginning to require more frequent maintenance and replacement parts will become more difficult to find.

### Engagement Strategy

Demonstrate use at Public Safety CIP project open house.

### Project Uses

	2019	2020	2021	2022	2023	Total
Purchase washer/dryer	0	0	17,000	0	0	17,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>17,000</b>	<b>0</b>	<b>0</b>	<b>17,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
General Fund	0	0	17,000	0	0	17,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>17,000</b>	<b>0</b>	<b>0</b>	<b>17,000</b>

### Project Timeline

April, 2021: research and identify replacement model

May, 2021: purchase and install replacement



# **PUBLIC SAFETY POLICE EQUIPMENT**



## Cash Flow

	2019	2020	2021	2022	2023	Total
Fund Balance	\$58,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	
Transfer-In PSC						
Available Funds	\$58,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	
Project Name	2019	2020	2021	2022	2023	Total
Axon Enterprise Taser	-\$54,000.00					-\$54,000.00
Total	-\$54,000.00	\$0.00	\$0.00	\$0.00	\$0.00	-\$54,000.00
Fund Balance	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	

## 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
Part-Time Police Unit Tasers	2019	54,000
Subtotal		54,000
Total		54,000

## Project: Part-Time Police Unit Tasers

Department: PUBLIC SAFETY POLICE EQUIPMENT

Project Years: 2019 - 2019

### Project Description

Taser X2

20 Taser X2 at \$1,500

40 Taser X2 Cartridges (2 each needed for each Taser) at \$50/cartridge

20 Holsters for Taser X2 at \$100/holster

Training for Part-Time Police Unit Officers \$2,500

Total = \$36,500

### Project Justification

Project outlines supplying an X2 Taser to each member of the Mankato Public Safety Police Part-time Unit . The Taser provides members of the unit a tool to use in situations of defense or control. Currently, members do not have a tool to use, thus requiring more direct contact with individuals during times of violence. Injuries to both the member and the citizen rise when Taser is not used (when applicable) or unavailable.

A Taser X2 would be supplied to each Police Part-Time Unit Officer to wear while on-duty. Each Taser X2 needs two cartridges and a holster to be worn properly for deployment. Officer worn Tasers have been the most appropriate way to deploy this tool as the Officer has immediate access to the device when needed to prevent injury, control behavior, and provide safety to the public.

### Engagement Strategy

Strategy will surround the applicability of the Police Part-time Unit to the community as a supplement of security and safety - especially during time of events (Airshow, Concerts, Sporting events, Public Education). Secondary to the applicability, the strategy will focus on the proper equipment needed to support the community safety and well-being during these events. Secondary strategy would focus on prevention and limited use conditions to provide protection of public rights and quality of life issues.

## Project Uses

	2019	2020	2021	2022	2023	Total
20 Taser X2 units, holsters, cartridges and training	54,000	0	0	0	0	54,000
<b>Total</b>	<b>54,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>54,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
General Fund	54,000	0	0	0	0	54,000
<b>Total</b>	<b>54,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>54,000</b>

## Project Timeline

Public Safety would purchase the 20 Taser X2 units, cartridges, and holster in the 2nd Quarter of 2020 and provide training instruction in the 3rd Quarter of 2020 to all Part-time Police Officers.







# **WATER CAPITAL IMPROVEMENT FUND**



## Cash Flow

### Water

Year	Project	Sources					Line Item	Sewer Utility
		Expense	Revolving Fund	PFA	Water Utility			
2019	Dolph Booster upgrade	\$ 100,000.00		\$ 100,000.00				
2019	Waste handling facility mixer pump rehab	\$ 15,000.00		\$ 15,000.00				
2019	High lift station pump 2 rehab	\$ 25,000.00		\$ 25,000.00				
2019	Lime slaker rehab	\$ 12,000.00	\$ 12,000.00					
2019	PLC upgrade	\$ 150,000.00		\$ 150,000.00				
2019	Lime storage vent system	\$ 35,000.00		\$ 35,000.00				
2019	Softener #1 Piping rehab	\$ 85,000.00	\$ 85,000.00					
2019	Solar bee installation - Hilltop reservoir	\$ 21,500.00	\$ 21,500.00					
2019	Membrane Valve replacement	\$ 10,000.00				\$ 10,000.00		
2019	Softener ventilation installation	\$ 40,000.00		\$ 40,000.00				
2019	Hazelton Pump #2	\$ 15,000.00		\$ 15,000.00				
		\$ 508,500.00	\$ 118,500.00	\$ 380,000.00	\$ -	\$ 10,000.00	\$ -	
2020	Balcerzak coating evaluation/ Madison Cleaning	\$ 12,000.00	\$ 12,000.00					
2020	High lift pump #3 rehab	\$ 25,000.00	\$ 25,000.00					
2020	Lime Slaker rehab	\$ 12,000.00	\$ 12,000.00					
2020	WTP PLC upgrade	\$ 150,000.00	\$ 150,000.00					
2020	Security camera installation	\$ 60,000.00	\$ 60,000.00					
2020	Softener 3 and 4 Rehab	\$ 130,000.00	\$ 130,000.00					
2020	Well 17 installation (Over 2 years)	\$ 2,100,000.00	\$ 2,100,000.00					
		\$ 2,489,000.00	\$ 2,489,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
2021	Well 11 Rehab	\$ 35,000.00	\$ 35,000.00					
2021	Clean and inspect reservoirs and towers	\$ 15,000.00	\$ 15,000.00					
2021	Hilltop booster #3 rehab	\$ 25,000.00	\$ 25,000.00					
2021	High lift pump rehab	\$ 25,000.00	\$ 25,000.00					
2021	Well 14 Rehab	\$ 100,000.00	\$ 100,000.00					
2021	Membrane feed pump rehab	\$ 30,000.00			\$ 30,000.00			\$ 125,000.00
2021	Hazelton Pump #1	\$ 125,000.00						
2021	Balcerzak Tower painting	\$ 2,700,000.00						
		\$ 3,055,000.00	\$ 200,000.00	\$ -	\$ 30,000.00	\$ -	\$ -	\$ 125,000.00

Year	Project	Expense	Revolving Fund	PFA	Water Utility	Line Item	Sewer Utility
2022	Hilltop booster rehab	\$ 50,000.00	\$ 50,000.00				
2022	Membrane valve replacement	\$ 10,000.00		\$ 10,000.00			
2022	Well 13 Caisson inspection/pump rehab	\$ 60,000.00	\$ 60,000.00				
2022	Membrane feed pump rehab	\$ 30,000.00	\$ 30,000.00				
		\$ 150,000.00	\$ 140,000.00	\$ 10,000.00	\$ -	\$ -	\$ -
2023	Dolph pump rehab/upgrade	\$ 100,000.00	\$ 100,000.00				
2023	Booster installation at North City Reservoir	\$ 25,000.00	\$ 25,000.00				
2023	Well 13 booster inspection/rehab	\$ 30,000.00	\$ 30,000.00				
		\$ 155,000.00	\$ 155,000.00	\$ -	\$ -	\$ -	\$ -
Illustrative	WTP Master Plan	\$ 200,000.00	\$ 200,000.00				
		\$ 200,000.00	\$ 200,000.00				

## 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
Dolph Booster Upgrade	2019	100,000
High Lift Station Pump 2 Rehab	2019	25,000
Lime Slaker Rehab	2019	12,000
Lime Storage Vent System	2019	35,000
Membrane Valve Replacement	2019	10,000
PLC Upgrade	2019	150,000
Softener #1 Piping Rehab	2019	85,000
Softener Ventilation Installation	2019	40,000
Solar Bee installation-Hilltop Reservoir	2019	21,500
Waste Handling Facility Hazelton Pump #2 Rehab	2019	15,000
Waste Handling Facility Mixer Pump Rehab	2019	15,000
<b>Subtotal</b>		<b>508,500</b>
<b>Total</b>		<b>508,500</b>

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
High Lift Pump #3 Rehab	2020	25,000
Lime Slaker Rehab	2020	12,000
Madison Tower Cleaning/Balcerzak coating evaluation	2020	12,000
Security camera installation	2020	60,000
Softener 3 and 4 Rehab	2020	130,000
Well 17 Installation	2020	2,100,000
WTP PLC upgrade	2020	150,000
<b>Subtotal</b>		<b>2,489,000</b>
<b>Total</b>		<b>2,489,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Clean and inspect reservoirs and towers	2021	15,000
High Lift Pump Rehab	2021	25,000
Hilltop Booster #3 Rehab	2021	25,000
Membrane Feed Pump Rehab.	2021	30,000
Waste Handling Facility Hazelton Pump #1 Rehab	2021	125,000
Well 11 Rehab	2021	35,000
Well 14 Rehab	2021	100,000
<b>Subtotal</b>		<b>355,000</b>
<b>Total</b>		<b>355,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Hilltop booster Rehab	2022	50,000
Membrane Feed Pump Rehab	2022	30,000
Membrane Valve Replacement	2022	10,000
Well 13 Caisson Inspection/Pump Rehab	2022	60,000
<b>Subtotal</b>		<b>150,000</b>
<b>Total</b>		<b>150,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Booster installation at North City Reservoir	2023	25,000
Dolph Pump rehab/Upgrade	2023	100,000
Well 13 booster inspection/rehab	2023	30,000
<b>Subtotal</b>		<b>155,000</b>
<b>Total</b>		<b>155,000</b>

## Project: Dolph Booster Upgrade

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Replace and upsize one pump, motor, and Variable Frequency Drive (VFD) to accommodate consumption on the upper system. The available pumps would be two pumps with a capacity of 1,250gpm and one of 2,000gpm plus.

Priority - High

### Project Justification

All three boosters are sized the same at 1250gpm. The city has grown to the East in recent years along with the consumption. The need for a second station with a larger booster (over 2,000gpm) is needed. During the summer months two boosters at Dolph are needed to accommodate the overnight demand. If one high efficiency motor with a VFD were installed water would be pumped to the upper system more efficiently.

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	83,542	0	0	0	0	83,542
Contingency	7,837	0	0	0	0	7,837
Engineering	8,621	0	0	0	0	8,621
<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Water Capital	100,000	0	0	0	0	100,000
<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Project Timeline

Summer of 2019. Dependent on contractor schedule.

## Project: High Lift Station Pump 2 Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Pull and inspect the columns, bowls, and motor integrity of the High Lift Station Pump 2. Replace wear parts as well as coat metal as needed, based on an indication of corrosion. Priority - Medium

### Project Justification

This is needed to maintain the inspection rotation of Mankato's water supply. These items are on a 10 year rotation. These pumps provide the quantity of water to the distribution system. We cannot afford to deviate from the recommended inspection cycle. They have never been pulled for inspection. After the first inspection we would be able to provide a more detailed baseline on pump maintenance.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	20,885	0	0	0	0	20,885
Contingency	1,960	0	0	0	0	1,960
Engineering	2,155	0	0	0	0	2,155
<b>Total</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Water Capital	25,000	0	0	0	0	25,000
<b>Total</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>



## Project Timeline

Fall of 2019. This is all contract work which will not require an extended amount of City personnel's time.

## Project: Lime Slaker Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Overhaul of the Lime slaker wear parts

### Project Justification

The lime slaker runs 24 hours a day 6 months out of the year. It is the heart of the softening process, without it we will not be able to lime soften the water. The purpose of the slaker is to take pebble lime and turn it into hydrated lime by separating excess grit and rocks from the lime. These rocks wear down the internal parts and reduce the efficiency. The proposal is to replace paddle shafts, grit forks, grit conveyor, and replace seals. The reduced efficiency of a slaker will cause grit carry over into the following process which will increase the burden the maintenance crew for grit removal from the softening basin as well as the blowdown tanks.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Slaker rehabilitation	12,000	0	0	0	0	12,000
<b>Total</b>	<b>12,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	12,000	0	0	0	0	12,000
<b>Total</b>	<b>12,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,000</b>

### Project Timeline

Spring of 2020

## Project: Lime Storage Vent System

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Remove the stationary lime vents and install a self-cleaning ventilation system. The purpose of this upgrade is to reduce a safety concern as well as an ongoing maintenance item. A quote was received on the install. Priority - Medium

### Project Justification

The current ventilation system requires cleaning monthly-weather dependent. The maintenance personnel are to climb on top of the lime storage basin with tools, remove the ventilation system, and chisel or hammer all lime build up off the screens. A self-cleaning system would automatically vibrate the screens allowing the particles to fall back into the raw product. If the pressure were to build too high in the storage tank the welded seams would explode. This has happened once before. The only access to the roof after the install would be to complete a monthly PM which would reduce a safety concern.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	32,256	0	0	0	0	32,256
Contingency	2,756	0	0	0	0	2,756
<b>Total</b>	<b>35,012</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,012</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Water Capital	35,000	0	0	0	0	35,000
<b>Total</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

## Project Timeline

Summer of 2019

## Project: Membrane Valve Replacement

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Ultra-Filter Valve replacement back stocking of the current valves.

### Project Justification

GE filter valve replacement-There are 219 valves on the membrane filters. The manufacturer's recommendation is 8 years on valve bodies. We have had multiple failures the past two years. Each full valve assembly is roughly \$2,500 each. This would include Valve body, Actuator, and Position indicator. With the sheer volume of valves in operation we cannot have this repetitive replacement item come out of the line items until we have established an inventory of valves. Quote is attached. 8"-\$2,200 10"-\$2,600 12"-\$2,900

### Project Uses

	2019	2020	2021	2022	2023	Total
Replacement Valves	10,000	0	0	0	0	10,000
<b>Total</b>	<b>10,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Line Item	10,000	0	0	0	0	10,000
<b>Total</b>	<b>10,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,000</b>

### Project Timeline

Throughout 2021 to allow for installation.

## Project: PLC Upgrade

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Upgrade current/outdated Programming Logic Controllers (PLC). This project would entail purchasing new equipment, install the current program, and install into the new cabinets. Priority - High

### Project Justification

PLC Upgrade-The current PLC's are outdated. Our programmer and their suppliers do not stock our current PLC cards. They have been discontinued. If one were to fail, our only option for replacement would be upgrade or searching E-Bay for a replacement. This upgrade was suggested by IN-Control while they were programming our current system. PLC cards become obsolete quickly and are not able to be refurbished. If a card were to fail that particular portion of the process would be run in manual until a replacement is found. If no replacement is found, an emergency upgrade would be needed. In 2012 there was an analysis of all PLC cards on hand and recommended spares needed. I have a quote to upgrade the PLC's from 2012 with a total of \$171,276. It is suggested to do the PLC upgrade in two phases. Phase 1 would be in 2019 with upgrading from GE Fanuc to Rockwell. The \$150,000 would cover the hardware and programming costs. Phase 2 would be to complete the PLC2 with another \$125,000. Between the phase 1 and 2 we would get an accurate cost estimate to upgrade the remote sites as well as spare parts for the Membrane PLC system.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	138,245	0	0	0	0	138,245
Contingency	11,755	0	0	0	0	11,755
<b>Total</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Water Capital	150,000	0	0	0	0	150,000
Total	150,000	0	0	0	0	150,000

## Project Timeline

Summer of 2019. This will be an extended project 2-3 Months. There will be multiple plant shut-downs to facilitate the electrical changes.

## Project: Softener #1 Piping Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Replace the spiral wound piping from the pipe installed in 2011 to the softener inlet.

### Project Justification

The current piping is a spiral wound pipe that was installed in the late 50's. The pipe is excessively corroded and in need of repair. After the upgrade in 2011 the original thought was to mothball softener #1 and #2 until a decision was made what direction to go in the next master plan. With rising TOC concentrations I made the decision to operate softener #1 along with a new softener as a hydraulic buffer to assist in settling solids pre-membrane as well as treat at a higher pH to remove magnesium hardness. The high pH removes roughly 20% more TOC in turn reducing the TTHM formation potential. Operating this way has dramatically increased the quality of Mankato's water. I would like to see this continue until a master plan is complete. If we were able to only operate the two new softeners we lose the ability to remove the percent TOC needed to maintain a low TTHM formation potential.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	71,011	0	0	0	0	71,011
Contingency	6,661	0	0	0	0	6,661
Engineering	7,328	0	0	0	0	7,328
<b>Total</b>	<b>85,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>85,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	85,000	0	0	0	0	85,000
<b>Total</b>	<b>85,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>85,000</b>



## Project Timeline

Spring of 2019. The project will be complete before spring runoff and there is an increase in demand and TOC.

## Project: Softener Ventilation Installation

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Remove 4 skylights and replace with a ventilation system. There is a quote utilizing Javens Mechanical and Gish Electric. Priority - Medium

### Project Justification

There is no ventilation system to remove harmful gasses or dust during maintenance projects. Current air exchanger will only exchange a portion of the air if it is manually hard wired to do so. During projects there will be pressure washing, grinding, and painting that creates an excessive amount of dust and potentially harmful gases. We currently only manage the issue, but the upgrade will create the proper amount of air exchanges to remove all constituents in the air. May be eligible for a grant.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	36,865	0	0	0	0	36,865
Contingency	3,135	0	0	0	0	3,135
<b>Total</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Water Capital	40,000	0	0	0	0	40,000
<b>Total</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

### Project Timeline

This is a contract item and will be based on the contractor's schedule. It would be completed in 2019.

## Project: Solar Bee installation-Hilltop Reservoir

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Installation of a mixer in each of the ground reservoirs at Hilltop Booster Station.

### Project Justification

A study is currently underway which will monitor chemical and thermal stratification in the two reservoirs. Stratification in the reservoirs is a direct indication that the water is not being turned over. With the water not being turned over it will lead to old water, decreased chlorine residual, higher possibility for TTHM formation, and bacteria/algae growth. With the current configuration of the reservoirs and valving we are not able to operate the 1.5 Million gallon reservoir and the 800,000 reservoir in series to mitigate the stratification. Hilltop reservoir is the only water storage tank that does not have a mixing system. The mixers themselves are just under \$10,000 each. The additional cost is to run wiring to the pump building.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	21,500	0	0	0	0	21,500
<b>Total</b>	<b>21,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21,500</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	21,500	0	0	0	0	21,500
<b>Total</b>	<b>21,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21,500</b>

### Project Timeline

Summer of 2019

## Project: Waste Handling Facility Hazelton Pump #2 Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Inspection and rehab of #2 Hazelton lime press pump. Replacement of seals, impeller, pump casing, and gaskets. This will be the first overhaul in almost 20 years. Priority - High

### Project Justification

The Hazelton pumps feed lime slurry to the dewatering presses for roughly 6 hours a day. If one were to fail we would lose 50% of our dewatering capacity. The pumps have not been rehabbed in 19 years. The seals on both pumps are leaking. If we are completing a seal repair it would be more feasible to replace the other items in need of attention the same time the seals are replaced. An individual seal for the pump is \$6,800 per part.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	12,531	0	0	0	0	12,531
Contingency	1,176	0	0	0	0	1,176
Engineering	1,293	0	0	0	0	1,293
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Water Capital	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Project Timeline

Fall of 2019.

## Project: Waste Handling Facility Mixer Pump Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Replace mixer impellers, pump housing, bearings, rehab motors, and associated seals. Priority - Medium

### Project Justification

The mixers have been online since 1999 with no major rehabilitation. There are two mixer sets that operate 24 hours a day 365 days a year. The purpose of a mixing pump is to keep the waste lime solids in suspension before pressing. If a pump were to fail we would have to operate on one tank which would put excessive work on all shifts to operate presses to maintain levels in the blowdown tanks. A rehabilitation will also increase the mixing efficiency of the tanks. The pumps have been inspected in 2016, excessive wear has been noted.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	14,020	0	0	0	0	14,020
Contingency	980	0	0	0	0	980
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Water Capital	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Project Timeline

Two weeks of in house repairs along with another 2 in the contract motor inspection.

## Project: High Lift Pump #3 Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Pull and inspect the columns, bowls, and motor integrity. Replace wear parts as well as coat the metal as needed, based on an indication of corrosion.

### Project Justification

This is needed to maintain the inspection rotation of Mankato's water supply. These items are on a 10 year rotation. These pumps provide the needed quantity of water to the distribution system. We cannot afford to deviate from the recommendation inspection cycle. They have never been pulled for inspection. After the first inspection we would be able to provide a more detailed baseline on pump maintenance.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Pump rehabilitation	0	25,000	0	0	0	25,000
<b>Total</b>	<b>0</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	25,000	0	0	0	25,000
<b>Total</b>	<b>0</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Project Timeline

Fall of 2020. This is all contract work which will not require an extended amount of City personnel's time.

## Project: Lime Slaker Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Overhaul of the Lime slaker wear parts

### Project Justification

The lime slaker runs 24 hours a day 6 months out of the year. It is the heart of the softening process, without it we will not be able to lime soften the water. The purpose of the slaker is to take pebble lime and turn it into hydrated lime by separating excess grit and rocks from the lime. These rocks wear down the internal parts and reduce the efficiency. The proposal is to replace paddle shafts, grit forks, grit conveyor, and replace seals. The reduced efficiency of a slaker will cause grit carry over into the following process which will increase the burden the maintenance crew for grit removal from the softening basin as well as the blowdown tanks.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
slaker rehabilitation	0	12,000	0	0	0	12,000
<b>Total</b>	<b>0</b>	<b>12,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	12,000	0	0	0	12,000
<b>Total</b>	<b>0</b>	<b>12,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,000</b>

### Project Timeline

Spring of 2020

## Project: Madison Tower Cleaning/Balcerzak coating evaluation

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Cleaning and Evaluation of the Coating of the Madison Tower through a contractor.

### Project Justification

Over the summer months the water tower sweats. This moisture on the outside of the tank creates an environment for mold and dust to build up on the surface. This creates an unsightly dark coating on the white tanks. As part of the painting a light evaluation of the coatings will be completed. If there are issues with the coating it will be included in the report. If the integrity of the coating is not maintained moisture will be able to penetrate to the metal and begin corroding the structure itself.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Coating cleaning and evaluation	0	12,000	0	0	0	12,000
<b>Total</b>	<b>0</b>	<b>12,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	12,000	0	0	0	12,000
<b>Total</b>	<b>0</b>	<b>12,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,000</b>

### Project Timeline

Spring of 2021 based off the contractor schedule.



## Project: Security camera installation

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Installation of security cameras at all water storage facilities.

### Project Justification

The integrity of the water system is our number one priority. There is currently no system in place to monitor the happenings of the remote sites after hours. There is a security system in place where if a person were to enter the structure an alarm will sound, but there is nothing monitoring the exteriors of the sites. We have had two intrusions where a security monitor would have given a clear picture as to what had happened. If we could get a visual as to what happened it could save the city millions of gallons or thousands of dollars in lime. We cannot take a chance that an individual opened a hatch and did not contaminate the system. We would have to notify the public, drain the reservoir, and possibly notify the public.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Installation of security system	0	60,000	0	0	0	60,000
<b>Total</b>	<b>0</b>	<b>60,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	60,000	0	0	0	60,000
<b>Total</b>	<b>0</b>	<b>60,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60,000</b>

### Project Timeline

Summer of 2020 based on the contractor's schedule

## Project: Softener 3 and 4 Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Paint and Sand Blast all metal internal parts of the softening basin. Replace Lamella/polishing tube settlers.

### Project Justification

Annual maintenance is done to prevent corrosion on all metal components of the softening basin. This work will last roughly two weeks. This is only touch up paint as needed. The entire basin will have to be blasted and coated with an even coat to prolong the life of all internal parts. If corrosion is not kept to a minimum the only other option will be to replace parts. The lamella tubes create surface area for lime particles to attach to and eventually settling to the basin floor to be sent to waste. Without the polishing tubes the softener will not operate at peak efficiency. The lamella tubes have become brittle and break during routine cleaning. While the softener is down it is suggested to replace the settling tubes while the metal support structure is being rehabbed or replaced.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Softener Rehabs	0	130,000	0	0	0	130,000
<b>Total</b>	<b>0</b>	<b>130,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>130,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	130,000	0	0	0	130,000
<b>Total</b>	<b>0</b>	<b>130,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>130,000</b>

### Project Timeline

Winter of December 2020 through February 2021

## Project: Well 17 Installation

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

## Project Description

Installation of a new deep well.

## Project Justification

The City of Mankato does not have the redundancy in deep wells to support the need for a 60% shallow well to 40% deep well ratio. With the rising Nitrates in the river there is a need for higher blending ability outside the 2250gpm currently provided from the two deep wells. If one were to fail the water plant may lose the ability to treat the amount of water needed to supply the city without running the two emergency wells. Along with the Nitrate concern the blending is also done to reduce the Total Organic Carbon loading to the facility. The higher the TOC the greater the Tri Halo Methane formation potential.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2019	2020	2021	2022	2023	Total
Drilling of a new deep well	0	2,100,000	0	0	0	2,100,000
<b>Total</b>	<b>0</b>	<b>2,100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,100,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	2,100,000	0	0	0	2,100,000
<b>Total</b>	<b>0</b>	<b>2,100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,100,000</b>

## Project Timeline

Spring through fall 2020.

## Project: WTP PLC upgrade

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Upgrading current/outdated Programming Logic Controllers (PLC). This project would entail purchasing new equipment, install the current program, and install into the new cabinets.

### Project Justification

PLC Upgrade-The current PLC's are outdated. Our programmer and their suppliers do not stock our current PLC cards. They have been discontinued. If one were to fail our only option for replacement would be upgrade or searching E-Bay for a replacement. This upgrade was suggested by IN-Control while they were programming our current system. PLC cards become obsolete quickly and are not able to be refurbished. If a card were to fail that particular portion of the process would be run in manual until a replacement is found. If no replacement is found an emergency upgrade would be needed. In 2012 there was an analysis of all PLC cards on hand and recommended spares needed. I have a quote to upgrade the PLC's from 2012 with a total of \$171,276. It is suggested to do the PLC upgrade in two phases. Phase 1 would be in 2020 with upgrading from GE Fanuc to Rockwell. The \$150,000 would cover the hardware and programming costs. Phase 2 would be to complete the PLC2 with another \$125,000. Between the phase 1 and 2 we would get an accurate cost estimate to upgrade the remote sites as well as spare parts for the Membrane PLC system.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
PLC upgrade to most recent technology	0	150,000	0	0	0	150,000
<b>Total</b>	<b>0</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	150,000	0	0	0	150,000
<b>Total</b>	<b>0</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

## Project Timeline

Summer of 2020. This will be an extended project possibly spanning 3 months.

## Project: Clean and inspect reservoirs and towers

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

### Project Description

Contract inspections of distribution system reservoirs-Hilltop, High Lift, Dolph, Madison, Balcerzak, and North City Reservoir.

### Project Justification

The interior of the reservoirs is also on a maintenance rotation for inspections. The integrity of the interior needs to be verified. This is produced on a report after the inspection. Overtime sediment forms on the bottom of the tanks this is removed as part of the inspection contract. All reservoirs except Hilltop Reservoir have mixers in the center of them. This is the only opportunity to complete maintenance and move them back to the center without draining the tank.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Cleaning below water level of reservoirs	0	0	15,000	0	0	15,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	0	15,000	0	0	15,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Project Timeline

Two weeks based off the contractor's schedule. The only involvement of plant staff is to allow the contractor into each site.

## Project: High Lift Pump Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

### Project Description

Pull and inspect the columns, bowls, and motor integrity. Replace wear parts as well as coat metal as needed, based on an indication of corrosion.

### Project Justification

This is needed to maintain the inspection rotation of Mankato's water supply. These items are on a 10 year rotation. These pumps provide the quantity of water to the distribution system. We cannot afford to deviate from the recommended inspection cycle. They have never been pulled for inspection. After the first inspection we would be able to provide a more detailed baseline on pump maintenance.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Booster Pump Rehab	0	0	25,000	0	0	25,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	0	25,000	0	0	25,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Project Timeline

Fall of 2021. This is all contract work which will not require an extended amount of City personnel's time.

## Project: Hilltop Booster #3 Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

### Project Description

Pull and inspect the columns, bowls, and motor integrity. Replace wear parts as well as coat metal as needed, based on an indication of corrosion.

### Project Justification

This is needed to maintain the inspection rotation of Mankato's water supply. These items are on a 10 year rotation. These pumps provide the quantity of water to the distribution system. We cannot afford to deviate from the recommended inspection cycle. They have never been pulled for inspection. After the first inspection we would be able to provide a more detailed baseline on pump maintenance.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Booster Rehab	0	0	25,000	0	0	25,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	0	25,000	0	0	25,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Project Timeline

Fall of 2021



## Project: Membrane Feed Pump Rehab.

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

### Project Description

Disassemble the motor, gearbox, and pump assembly. Send the motor in to test the integrity and rehab if needed. Replace all wear parts. Verify tolerances in the pump bowl.

### Project Justification

This is needed to maintain the inspection rotation of Mankato's water supply. These items are on a 13 year rotation. These pumps provide the water pressure needed to create the differential pressure to push water through the membrane fibers. We cannot afford to deviate from the from the recommended inspection cycle. They have never been pulled for inspection which is not a task that Mankato has the personnel or equipment to inspect. Once the first inspection is complete we will be able to provide a more detailed baseline on pump maintenance.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Pump/motor rehab	0	0	30,000	0	0	30,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Water Utility	0	0	30,000	0	0	30,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Project Timeline

One pump will be pulled in the spring of 2021 and the other in the fall. We are not able to complete more than one pump at a time due to the need of redundant pumps.

## Project: Waste Handling Facility Hazelton Pump #1 Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

### Project Description

Inspection and rehab of #1 Hazelton lime press pump. Replacement of seals, wear ring, cast iron pedestal, impeller, pump casing, and gaskets. This will be the first overhaul since 1999.

Priority - High

### Project Justification

The Hazelton pumps feed lime slurry to the dewatering presses for roughly 6 hours a day. If one were to fail we would lose 50% of our dewatering capacity. During high flow months we would not be able to keep up with lime waste production. The pumps have not been rehabbed in since installation in 1999. The seals on both pumps are leaking. If we are completing a seal repair it would be more feasible to replace the other items in need of attention the same time the seals are replaced. The seal itself cost \$7,000 without labor.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	0	0	125,000	0	0	125,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>125,000</b>	<b>0</b>	<b>0</b>	<b>125,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sewer Utility	0	0	125,000	0	0	125,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>125,000</b>	<b>0</b>	<b>0</b>	<b>125,000</b>

### Project Timeline

Spring of 2021

## Project: Well 11 Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

### Project Description

Complete the inspection and rehab based of the maintenance rotation. Coat pump shafts and bowls to prevent corrosion.

### Project Justification

The inspection and rehab of the pump, motor, casing, and bearings based off the preventative maintenance rotation. If the integrity of the well casing, shaft and bowls are not verified, future cost will greatly increase.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Well inspection/rehab	0	0	35,000	0	0	35,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	0	35,000	0	0	35,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

### Project Timeline

Fall of 2021 based on the contractor's schedule.

## Project: Well 14 Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

### Project Description

Complete the inspection and rehab based of the maintenance rotation. Coat pump shafts to prevent corrosion. Upgrade motor and install a VFD.

### Project Justification

The inspection and rehab the pump, motor, casing, and bearings based off the preventative maintenance rotation. If the integrity of the well casing, shaft and bowls are not verified, future cost will greatly increase. I suggest to upgrade to a high efficiency motor as well as install a VFD to meet the city's demand. We maintain a 60-40 blend and have a difficult time maintaining that with the current well setup. The ability to control the blending ratio will allow the facility to optimize chemical usage.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Well rehab and upgrade	0	0	100,000	0	0	100,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	0	100,000	0	0	100,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Project Timeline

Fall of 2020. Upgrade will have to be completed outside the typical high demand season.

## Project: Hilltop booster Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2022 - 2022

### Project Description

Pull and inspect the columns, bowls, and motor integrity. Replace wear parts as well as coat metal as needed, based on an indication of corrosion.

### Project Justification

This is needed to maintain the inspection rotation of Mankato's water supply. These items are on a 10 year rotation. These pumps provide the quantity of water to the distribution system. We cannot afford to deviate from the recommended inspection cycle. They have never been pulled for inspection. After the first inspection we would be able to provide a more detailed baseline on pump maintenance.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Booster Pump Rehabilitation	0	0	0	50,000	0	50,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>50,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	0	0	50,000	0	50,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>50,000</b>

### Project Timeline

One pump in the spring and the second in the fall. Pump maintenance will need to be spaced out due to the need for redundancy.

## Project: Membrane Feed Pump Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2022 - 2022

### Project Description

Disassemble the motor, gearbox, and pump assembly. Send the motor in to test the integrity and rehab if needed. Replace all wear parts. Verify tolerances in the pump bowl.

### Project Justification

This is needed to maintain the inspection rotation of Mankato's water supply. These items are on a 13 year rotation. These pumps provide the water pressure needed to create the differential pressure to push water through the membrane fibers. We cannot afford to deviate from the recommended inspection cycle. They have never been pulled for inspection which is not a task that Mankato has the personnel or equipment to inspect. Once the first inspection is complete we will be able to provide a more detailed baseline pump maintenance.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Pump/Motor Rehab	0	0	0	30,000	0	30,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>	<b>0</b>	<b>30,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	0	0	30,000	0	30,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>	<b>0</b>	<b>30,000</b>

### Project Timeline

One pump will be pulled in the spring of 2022 and the other in the fall. We are not able to complete more than one pump at a time due the need of redundancy.

## Project: Membrane Valve Replacement

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2022 - 2022

### Project Description

Ultra-Filter Valve replacement back stocking of the current valves. Priority - High

### Project Justification

GE filter valve replacement-There are 219 valves on the membrane filters. The manufacturer's recommendation is 8 years on valve bodies. We have had multiple failures the past two years. Each full valve assembly is roughly \$2,500 each. This would include Valve body, Actuator, and Position indicator. With the sheer volume of valves in operation we cannot have this repetitive replacement item come out of the line items until we have established an inventory of valves. Quote is attached. 8"-\$2,200 10"-\$2,600 12"-\$2,900

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	0	0	0	10,000	0	10,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,000</b>	<b>0</b>	<b>10,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Water Capital	0	0	0	10,000	0	10,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,000</b>	<b>0</b>	<b>10,000</b>

### Project Timeline

Throughout 2019 as time allows for replacement.

## Project: Well 13 Caisson Inspection/Pump Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2022 - 2022

### Project Description

Inspection and rehab of well 13 pump #2. Motor integrity, bearings, pump casing, and pump bowls are to be inspected. It is best to pull at least on pump while the well is out of service for caisson inspection.

### Project Justification

The integrity of the pump and associated parts are inspected on a 10 year rotation. The motor is sent off for inspection of the windings and bearings. Pump casing and bowls are inspected for corrosion and coated to prevent future corrosion. This inspection is outside the scope of ability of the WTP maintenance team. Caisson inspection is needed to verify integrity of the concrete, valve operation, and proper flow from the laterals. Overtime the laterals may corrode, crack or collapse. This will reduce the overall production of the well. This inspection will allow for a budget of future overhauls as needed.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Caisson and pump inspection/rehab	0	0	0	60,000	0	60,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60,000</b>	<b>0</b>	<b>60,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	0	0	60,000	0	60,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60,000</b>	<b>0</b>	<b>60,000</b>

### Project Timeline

Fall of 2022. All pump maintenance is completed either before or after peak pumping.



## Project: Booster installation at North City Reservoir

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2023 - 2023

### Project Description

Complete a study looking into the need for installing a set of booster pumps at North City Reservoir.

### Project Justification

The East side of Mankato has expanded greatly and the need to have the redundancy as well as the capacity to pump to the upper system is imperative. Since North City reservoir is the smallest reservoir in the system the pump would not need to match the size of Dolph and Hilltop which are the main booster stations.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Study on need for additional boosters	0	0	0	0	25,000	25,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>	<b>25,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	0	0	0	25,000	25,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>	<b>25,000</b>

### Project Timeline

Summer 2023

## Project: Dolph Pump rehab/Upgrade

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2023 - 2023

### Project Description

Replace and upsize one pump, motor, and Variable Frequency Drive (VFD) to accommodate consumption on the upper system. The available pumps would be two pumps with a capacity of 1,250gpm and one of 2,000gpm plus. Priority - High

### Project Justification

All three boosters are sized the same at 1250gpm. The city has grown to the East in recent years along with the consumption. The need for a second station with a larger booster (over 2,000gpm) is needed. During the summer months two boosters at Dolph are needed to accommodate the overnight demand. If high efficiency motors with VFDs were installed water would be pumped to the upper system more efficiently.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Booster rehab/upgrade	0	0	0	0	100,000	100,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>	<b>100,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	0	0	0	100,000	100,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>	<b>100,000</b>

### Project Timeline

Spring of 2023. Try to get the upgrade complete before peak pumping.

## Project: Well 13 booster inspection/rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2023 - 2023

### Project Description

Inspection and rehab of Well 13 pump #1. Motor integrity, bearings, pump casing, and pump bowls are to be inspected. Priority - Medium

### Project Justification

The integrity of the pump and associated parts are inspected on a 10 year rotation. The motor is sent off for inspection of the windings and bearings. Pump casing and bowls are inspected for corrosion and coated to prevent future corrosion. This inspection is outside the scope of ability of the WTP maintenance team.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Caisson and pump inspection/Rehab	0	0	0	0	30,000	30,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>	<b>30,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Revolving Fund	0	0	0	0	30,000	30,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>	<b>30,000</b>

### Project Timeline

Fall of 2023 based on contractor's schedule





# **WASTEWATER CAPITAL IMPROVEMENT FUND**



## Cash Flow

### Wastewater Capital

Year	Project	Sources			
		Expense	PFA	General Fund	Sewer Utility
2019	Lake Washington/Madison Lake corrosion protection	\$ 200,000.00	\$ 200,000.00		
2019	Mankato - Viking ravine/ Telemark/ Stoltzmann telemetry connection	\$ 50,000.00		\$ 50,000.00	
2019	Upgrade harper lift station - pump and forcemain upsize	\$ 122,261.33			\$ 122,261.33
		\$ 372,261.33	\$ 200,000.00	\$ 50,000.00	\$ 122,261.33
2020	Pohl Creek (Tanager) liftstation upgrade	\$ 140,000.00	\$ 140,000.00		
		\$ 140,000.00	\$ 140,000.00		
2021	Aeration DO probe replacement	\$ 12,000.00	\$ 12,000.00		
		\$ 12,000.00	\$ 12,000.00		
2022	Muffin Monster Grinder replacement	\$ 16,000.00	\$ 16,000.00		
		\$ 16,000.00	\$ 16,000.00		
Illustrative	Muffin Monster Grinder replacement	\$ 18,000.00	\$ 18,000.00		

## 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
Lake Washington / Madison Lake corrosion Protection	2019	200,000
Mankato - Viking Ravine / Telemark / Stoltzmann telemetry connection.	2019	50,000
Upgrade Harper liftstation - pump and forcemain upsize	2019	122,261
<b>Subtotal</b>		<b>372,261</b>
<b>Total</b>		<b>372,261</b>

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Pohl Creek (Tanager) liftstation upgrade	2020	140,000
<b>Subtotal</b>		<b>140,000</b>
<b>Total</b>		<b>140,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Aeration DO probe replacement	2021	12,000
<b>Subtotal</b>		<b>12,000</b>
<b>Total</b>		<b>12,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Muffin Monster Grinder replacement	2022	16,000
<b>Subtotal</b>		<b>16,000</b>
<b>Total</b>		<b>16,000</b>

## Illustrative CIP Fund Overview

Project Name	Project Year
Muffin Monster Grinder replacement	18,000
<b>Subtotal</b>	<b>18,000</b>
<b>Total</b>	<b>18,000</b>



## Project: Lake Washington / Madison Lake corrosion Protection

Department: WASTEWATER CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Inspect station, and clean and epoxy areas of the liftstation being attacked by hydrogen sulfide. This would also replace the existing hatch cover, which is beginning to corrode, and install a oxygenation pump into the wetwell to inhibit formation of corrosive environments, and potentially eliminate odors at the station.

### Project Justification

Madison Lake residents have been worried about the odor from the station, and several times have indicated the odor is affecting their ability to have their windows open at their residencies. In addition, the aggressive nature of the wastewater is corroding the station, and subsequently causing very aggressive to enter Mankato interceptors and cause accelerated deterioration of the interceptors near Hwy 22.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
bypass pumping	25,000	0	0	0	0	25,000
construction	75,000	0	0	0	0	75,000
corrosion protection prep and application	30,000	0	0	0	0	30,000
engineering	25,000	0	0	0	0	25,000
equipment	45,000	0	0	0	0	45,000
<b>Total</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	200,000	0	0	0	0	200,000
<b>Total</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>

## Project Timeline

Summer 2018 - review demonstration by LWSSD of potential odor removal system. 4th quarter design solutions with engineering, and procure bids. Spring 2019 - purchase equipment, and pre-form construction in late Spring 2019.

## Project: Mankato - Viking Ravine / Telemark / Stoltzman telemetry connection.

Department: WASTEWATER CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Link Stoltzmann liftstation, Telemark liftstation, and Viking Ravine Liftstation; to SCADA via repeater on light pole on Stoltzman, add pump down programming at each liftstation to allow flow data as well as pump times are each liftstation. The purpose of this is to increase overall data acquisition of flow information at all Mankato liftstations.

### Project Justification

The purpose of this is to allow better integration and increase overall data acquisition of flow information at all Mankato liftstations.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Contractor	25,000	0	0	0	0	25,000
contingency	5,000	0	0	0	0	5,000
Equipment	20,000	0	0	0	0	20,000
<b>Total</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
General Fund	50,000	0	0	0	0	50,000
<b>Total</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Project Timeline

4th quarter 2018 - Review construction timeline of Viking Ravine Liftstation with engineering.

1st quarter 2019 - Order parts, and have components installed along with timelines provided in Viking Ravine liftstation construction to decrease overall cost.

## Project: Upgrade Harper liftstation - pump and forcemain upsized

Department: WASTEWATER CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Inspect forcemain, and either clean or replace and upsized the forcemain from a 4" to a size to accommodate larger pumps for the station. This work would be performed by an outside general contractor.

### Project Justification

Harper liftstation has become a high priority liftstation during rain events, as the area is highly susceptible to standing water and no storm system is located in the area. This has caused multiple back-ups in the area during the last few rain events, and this work would alleviate back-ups and free up several equipment and personal resources during rain events. Cost estimate is based on previous quotes and the recently completed facility plan.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin	6,324	0	0	0	0	6,324
Construction Contingency	9,582	0	0	0	0	9,582
Engineering	10,540	0	0	0	0	10,540
Sanitary Sewer	23,091	0	0	0	0	23,091
Street	72,725	0	0	0	0	72,725
<b>Total</b>	<b>122,261</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>122,261</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sewer Utility	122,261	0	0	0	0	122,261
<b>Total</b>	<b>122,261</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>122,261</b>

## Project Timeline

4th quarter 2018 inspect forcemain. 1st quarter 2019 work with engineers to find best pump and forcemain combination and request bids for construction. 2nd quarter 2019 award bid, and begin construction.

## Project: Pohl Creek (Tanager) liftstation upgrade

Department: WASTEWATER CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Utilizing an engineer and general contractor, select larger replacement pumps, new control panel, and increase the existing forcemain with larger forcemain.

### Project Justification

Pohl liftstation is located in a highly active area of Mankato for expansion, and with the recent addition of apartment complex's the existing station now has extended run times under normal flow conditions. This is compounded during rain events, as this area is prone to inflow and infiltration issues. This upgrade is needed to make sure the liftstation does not curb growth in this area of town. Cost estimate is based on engineer projections from the wastewater facility plan.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
full project cost	0	140,000	0	0	0	140,000
<b>Total</b>	<b>0</b>	<b>140,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>140,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	140,000	0	0	0	140,000
<b>Total</b>	<b>0</b>	<b>140,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>140,000</b>

### Project Timeline

1st quarter 2019 - request bids, and design traffic flow changes, and notify effected residents.  
2nd quarter 2019 - award bids and begin construction. 3rd quarter 2019 - complete construction.

## Project: Aeration DO probe replacement

Department: WASTEWATER CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

### Project Description

Replace existing DO probes with new ones.

### Project Justification

Our DO probes keep us notified of flows which could place our effluent out of compliance. In addition, they are being used as a control measure to increase electrical efficiency of our blowers. These probes were replaced in 2017 and have a four year life span.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
replacement probes	0	0	12,000	0	0	12,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>12,000</b>	<b>0</b>	<b>0</b>	<b>12,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	0	12,000	0	0	12,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>12,000</b>	<b>0</b>	<b>0</b>	<b>12,000</b>

### Project Timeline

1st quarter 2021 order probes. 2nd quarter have staff replace old probes with new.



## Project: Muffin Monster Grinder replacement

Department: WASTEWATER CAPITAL IMPROVEMENT FUND

Project Years: 2022 - 2022

### Project Description

Order replacement grinder section of the muffin monster, remove worn grinder, install new grinder, and ship old grinder to manufacturer.

### Project Justification

The grinder portion of our Muffin Monster compacting system is a key component in breaking down debris which is removed by our barscreen. This is a bi-annual replacement, and we send the "core" back to the manufacture to help keep the cost down. Note: This will not be needed if 2020 Washer / compactor upgrade is performed.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
core replacement	0	0	0	16,000	0	16,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16,000</b>	<b>0</b>	<b>16,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	0	0	16,000	0	16,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16,000</b>	<b>0</b>	<b>16,000</b>

### Project Timeline

1st quarter 2022 order grinder component. 2nd quarter 2022 replace old parts with new.





# **WASTEWATER PLANT CAPITAL IMPROVEMENT FUND**



## Cash Flow

### Wastewater Plant

Year	Project	Sources				Capital Fund
		Expense	PFA	General Fund		
2019	PLC upgrade phases 3 -5	\$ 80,000.00		\$ 80,000.00		
2019	Solids boiler tube replacement	\$ 35,000.00	\$ 35,000.00			
2019	Reclaim pump 2 of 2 rebuild	\$ 45,000.00		\$ 45,000.00		
2019	WRF/ MEC parallel upgrade	\$ 2,500,000.00	\$ 2,500,000.00			
2019	Preliminary Engineering	\$ 315,000.00				\$ 315,000.00
2019	WRK Upgrade	\$ 750,000.00				\$ 750,000.00
		\$ 3,725,000.00	\$ 2,535,000.00	\$ 125,000.00		\$ 1,065,000.00
2020	Main lift pump rebuild 1 of 6	\$ 70,000.00	\$ 70,000.00			
2020	Waste receiving station expansion	\$ 250,000.00	\$ 250,000.00			
2020	Upgrade current DAF electrical MCC	\$ 395,000.00	\$ 395,000.00			
2020	Expand administrative space at WRRF	\$ 1,900,000.00	\$ 1,900,000.00			
2020	Upgrade barscreen to improve removal of debris	\$ 1,400,000.00	\$ 1,400,000.00			
2020	EQ forcemain replacement	\$ 930,000.00	\$ 930,000.00			
2020	Replace existing chlorine contact basin (MASTER PLAN)	\$ 1,800,000.00	\$ 1,800,000.00			
		\$ 6,745,000.00	\$ 6,745,000.00	\$ -		\$ -
2021	Waste receiving station expansion	\$ 250,000.00	\$ 250,000.00			
2021	Primary Knife valve replacement	\$ 50,000.00	\$ 50,000.00			
2021	ORP/ pH probe replacement	\$ 20,000.00	\$ 20,000.00			
2021	Main lift pump rebuild 2 of 6	\$ 72,000.00	\$ 72,000.00			
2021	Digester complex upgrade	\$ 9,600,000.00	\$ 9,600,000.00			
2021	Expansion of existing biosolids storage	\$ 1,700,000.00	\$ 1,700,000.00			

Year	Project	Expense	PFA	General Fund	Capital Fund
2021	Structural repairs to aeration basins 2 and 3	\$ 400,000.00	\$ 400,000.00		
2021	Replace existing chlorine contact basin (MASTER PLAN)	\$ 1,800,000.00	\$ 1,800,000.00		
2021	Upgrade MCC 5 (MASTER PLAN)	\$ 400,000.00	\$ 400,000.00		
		\$ 14,292,000.00	\$ 14,292,000.00	\$ -	\$ -
2022	Upgrade current DAF electrical MCC	\$ 395,000.00	\$ 395,000.00		
2022	Switchgear bucket cleaning	\$ 15,000.00	\$ 15,000.00		
2022	Main lift pump rebuild 3 of 6	\$ 65,000.00	\$ 65,000.00		
2022	Digester complex upgrade	\$ 9,000,000.00	\$ 9,000,000.00		
2022	Structural repairs to aeration basins 2 and 3	\$ 400,000.00	\$ 400,000.00		
2022	Upgrade regional trunk line - Thompson Ravine to WRRF (customer community line)	\$ 4,775,555.00	\$ 4,775,555.00		
2022	Replace DAF with new thickening process	\$ 1,600,000.00	\$ 1,600,000.00		
2022		\$ 16,250,555.00	\$ 16,250,555.00		
2023	Belt filter press upgrade	\$ 558,000.00	\$ 558,000.00		
2023	Replacement of existing washer compactor, and install a second compactor	\$ 580,588.00	\$ 580,588.00		
2025	Pump Station to EQ Process	\$ 1,138,588.00	\$ 1,138,588.00		
2025	Mulberry Liftstation upgrade	\$ 3,526,380.00	\$ 3,526,380.00		
2025	Blower Replacement with turbo blowers	\$ 2,110,680.00	\$ 2,110,680.00		
2025		\$ 3,395,552.00	\$ 3,395,552.00		
2028	Add new primary clarifier	\$ 9,032,612.00	\$ 9,032,612.00		
		\$ 3,435,432.00	\$ 3,435,432.00		
		\$ 3,435,432.00	\$ 3,435,432.00		

## 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
PLC upgrade Phases 3 - 5	2019	80,000
Preliminary Engineering	2019	315,000
Reclaim Pump 2 of 2 rebuild	2019	45,000
Solids boiler tube replacement	2019	35,000
WRF / MEC parallel upgrade	2019	2,500,000
WRK Upgrade	2019	750,000
<b>Subtotal</b>		<b>3,725,000</b>
<b>Total</b>		<b>3,725,000</b>

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
EQ forcemain replacement	2020	930,000
Expand Administrative space at the WRRF	2020	950,000
Main lift pump rebuild 1 of 6	2020	70,000
Replace existing chlorine contact basin	2020	1,800,000
Upgrade barscreen to improve removal of debris	2020	1,400,000
Upgrade current DAF electrical MCC	2020	395,000
Waste Receiving station expansion	2020	250,000
<b>Subtotal</b>		<b>5,795,000</b>
<b>Total</b>		<b>5,795,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Digester Complex Upgrade	2021	9,600,000
Expand Administrative space at the WRRF	2021	950,000
Expansion of Existing Biosolids storage	2021	1,700,000
Main lift pump rebuild 2 of 6	2021	72,000
ORP / pH probe replacement	2021	20,000
Primary Knife valve replacement	2021	50,000
Replace existing chlorine contact basin	2021	1,800,000
Structural repairs to aeration basins 2 and 3	2021	400,000
Upgrade MCC 5	2021	400,000
Waste Receiving station expansion	2021	250,000
<b>Subtotal</b>		<b>15,242,000</b>
<b>Total</b>		<b>15,242,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Digester Complex Upgrade	2022	9,000,000
Main lift pump rebuild 3 of 6	2022	65,000
Replace DAF with new thickening process	2022	1,600,000
Structural repairs to aeration basins 2 and 3	2022	400,000
Switchgear Bucket Cleaning	2022	15,000
Upgrade current DAF electrical MCC	2022	395,000
Upgrade regional trunk line - Thompson Ravine to WRRF (customer community line)	2022	4,775,555
<b>Subtotal</b>		<b>16,250,555</b>
<b>Total</b>		<b>16,250,555</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Belt Filter Press Upgrade	2023	558,000
Replacement of existing washer compactor, and install a second compactor	2023	580,588
<b>Subtotal</b>		<b>1,138,588</b>
<b>Total</b>		<b>1,138,588</b>

## Illustrative CIP Fund Overview

Project Name	Project Year
Add new primary clarifier	3,435,432
Blower Replacement with turbo blowers	3,395,552
Mulberry Liftstation Upgrade	2,110,680
Pump station to EQ process	3,526,380
<b>Subtotal</b>	<b>12,468,044</b>
<b>Total</b>	<b>12,468,044</b>



## Project: PLC upgrade Phases 3 - 5

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Replace existing PLC's from GE Fanuc to Rockwell PLC's. 2018 will be PLC's 11, 12, 13, 14. These PLC's reside in the Water Reclamation Facility, which supplies water to MEC. From 2018's PLC quotes, the scope of each upgrade has been shrunk, thus the phase has added a 4th year in 2020 PLC's 2,7, and 5th in 2021 PLC's 8, 9, 10. Remaining PLC's will be upgraded as part of the digester upgrades going on from 2020 - 2022, and will be new panels since the existing panels for these areas will be removed as part of the upgrade.

### Project Justification

Our current PLC's are utilizing defunct technology, and we are beginning to be unable to find replacement hardware. These PLC's will also provide the needed capacity for future expansion, thus this would reduce some expense on future projects in the area of controls.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Contingency	5,000	0	0	0	0	5,000
Contractor	35,000	0	0	0	0	35,000
Equipment	40,000	0	0	0	0	40,000
<b>Total</b>	<b>80,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
General Fund	80,000	0	0	0	0	80,000
<b>Total</b>	<b>80,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>

## Project Timeline

4th quarter 2018 develop plan with In Control for replacement, and construction timeline to mesh with MEC upgrade of new disc filters and pumps in the WRF.

1st quarter 2019 - prep materials offsite to reduce down time of PLC's at the facility.

2nd quarter install PLC's along with upgrades done for the MEC upgrade

## Project: Preliminary Engineering

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

## Project Description

Preliminary Engineering.

## Project Uses

	2019	2020	2021	2022	2023	Total
Preliminary Engineering	315,000	0	0	0	0	315,000
Total	315,000	0	0	0	0	315,000

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	315,000	0	0	0	0	315,000
Total	315,000	0	0	0	0	315,000

## Project: Reclaim Pump 2 of 2 rebuild

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Hire contractor to pull pump utilizing a crane, and haul pump offsite for inspection and rebuild. After repair, higher contractor to reinstall pump utilizing crane. Quote is being increased from \$40,000 to \$45,000 to account for increase in steel prices identified from IPS pump 6 rebuild in 2018.

### Project Justification

Five years ago the last reclaim pump was rebuilt with minor repairs needed, and we want to rebuild the second one in 2019 as this will be the year Mankato Energy Center is planning on going online. We would wait to schedule this until new pumps have been installed to make sure we do not hold-up construction timelines.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Unidentified	45,000	0	0	0	0	45,000
<b>Total</b>	<b>45,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
General Fund	45,000	0	0	0	0	45,000
<b>Total</b>	<b>45,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45,000</b>

### Project Timeline

4th quarter 2018 review MEC construction schedule, and develop timeline from this as to when in 2019 we would have contractor remove the pump, and rebuild. Would look for opportunity to

utilize on-site construction crews for the removal if construction schedule is not negatively impacted.

## Project: Solids boiler tube replacement

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Schedule to have a 3rd part company remove old boiler tubes, and have 3rd party contractor install new tubes. Moved to 2019 since several CIP's were removed from the 2019 list.

### Project Justification

The boilers were placed in service in 2000, and tubes were last rebuilt in 2010. With our current biogas usage, and water conditioning we are only able to get 10 years of usable out of our boiler tubes. Replacement in 2020 would keep the boilers operating, which are required to meet our biosolids treatment process.

### Project Uses

	2019	2020	2021	2022	2023	Total
Wastewater	35,000	0	0	0	0	35,000
<b>Total</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	35,000	0	0	0	0	35,000
<b>Total</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

### Project Timeline

1st quarter 2019 schedule contractor and have tubes replaced. Tubes replaced in 2nd quarter of 2019, will wait until heating season is over.

## Project: WRF / MEC parallel upgrade

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

### Project Description

Mankato's WRF will receive two new discfilters, and two new pumps to increase pumping capacity to match projected demand at the Mankato Energy Center. In addition, new piping, sampling equipment, cleaning equipment for existing filters, and an emergency water connection will be added as part of the project.

### Project Justification

Mankato Energy Center is currently under construction to increase their capacity, and this will increase the demand we will be required to supply to the power plant. Currently their construction schedule has them completing their project November of 2018, and requiring an increase in flow demand starting in the late spring early summer of 2019. Our current filter set-up and pumping capacity does not meet MEC's projected usage needs, and as such a report was generated by Bolton and Menk to determine the cost of the project. We are able to meet timelines, but will need to purchase equipment prior to construction.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Automated CIP system	100,000	0	0	0	0	100,000
Contingency for expediting construction	500,000	0	0	0	0	500,000
Electrical & Controls	160,000	0	0	0	0	160,000
Emergency hydrant install	30,000	0	0	0	0	30,000
Engineered contingency	220,000	0	0	0	0	220,000
Legal, engineering, Admin	290,000	0	0	0	0	290,000
Process Piping	200,000	0	0	0	0	200,000
Sampling equipment	55,000	0	0	0	0	55,000
Site work	20,000	0	0	0	0	20,000
two new disc filters	700,000	0	0	0	0	700,000
Two new Vertical turbine pumps	225,000	0	0	0	0	225,000
<b>Total</b>	<b>2,500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,500,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	2,500,000	0	0	0	0	2,500,000
<b>Total</b>	<b>2,500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,500,000</b>

## Project Timeline

June 2018 equipment procurement specifications, and engineering design.

July/Aug 2018 - City purchases equipment.

Final design 3rd quarter 2018.

October 2018 - Bids for construction open.

November 2018 construction starts.

May 2019 - start-up of equipment, project completion.



## Project: WRK Upgrade

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2019 - 2019

## Project Description

WRK upgrade

## Project Uses

	2019	2020	2021	2022	2023	Total
WRK upgrade	750,000	0	0	0	0	750,000
Total	750,000	0	0	0	0	750,000

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	750,000	0	0	0	0	750,000
Total	750,000	0	0	0	0	750,000

## Project: EQ forcemain replacement

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replace the existing 20" diameter forcemain for our equalization basins with a new larger pipe. This pipe is 1400' long and runs through the main roadway of the lower part of the facility. The new pipe may be moved due to other construction projects, and upsized to handle the increased inflow and infiltration the facility has experienced during heavy rains.

### Project Justification

Existing pipe was install in 1985, and has become a point of failure during a few heavy rain events over the last few years. The last failure illustrated the fact the pipe has started to deform over-time, and is currently egg shaped in spots. This pipe is the only way we are able to utilize our equalization basins, which protect the plant from toxic loads, and the river during heavy rain events by allow the facility to offload high flows.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction Cost	0	728,841	0	0	0	728,841
Contingency	0	116,614	0	0	0	116,614
Engineering	0	84,545	0	0	0	84,545
<b>Total</b>	<b>0</b>	<b>930,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>930,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
PFA	0	930,000	0	0	0	930,000
<b>Total</b>	<b>0</b>	<b>930,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>930,000</b>

## Project Timeline

4th quarter 2019 work with engineers to determine when this will be included during the preliminary construction of the digester upgrade.

## Project: Expand Administrative space at the WRRF

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2021

### Project Description

Review the existing control building, and expand out by adding 6,000 square feet to the building. Focuses will be larger conference room, climate controlled record storage and library, operations room, lab space, locker rooms, and lunch room. Plan will be to create a more open layout to help with inviting public to see the facility, while also making the building more energy efficient.

### Project Justification

Current staff do not have enough space, and have several offices in hallways. We are also looking to add staff, and do not have places to house their offices. During the facility plan, it was determined we were about 6,000 square feet undersized for expected space utilization of current staffing levels at the facility.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
architectural design	0	75,000	15,000	0	0	90,000
construction	0	200,000	500,000	0	0	700,000
contingency	0	30,000	60,000	0	0	90,000
engineering	0	45,000	25,000	0	0	70,000
materials	0	600,000	350,000	0	0	950,000
<b>Total</b>	<b>0</b>	<b>950,000</b>	<b>950,000</b>	<b>0</b>	<b>0</b>	<b>1,900,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	950,000	950,000	0	0	1,900,000
<b>Total</b>	<b>0</b>	<b>950,000</b>	<b>950,000</b>	<b>0</b>	<b>0</b>	<b>1,900,000</b>

## Project Timeline

Fall 2018, begin preliminary design and architectural design. Spring 2019, review architectural concepts, and review these against the planned digester upgrade to see when the proper schedule would be to complete necessary work on the administrative spaces.

## Project: Main lift pump rebuild 1 of 6

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Schedule to have a 3rd part company assist with removal of pump, send pump to manufacturer for inspection and rebuild of worn components, deliver parts back to facility, and reinstall pump by onsite staff. Increased to cover expected increase in steel prices.

### Project Justification

In 2010 the facility began rebuilding the six main lift pumps, all will be rebuilt by 2018. Thus in 2020 we will begin the rebuilding the pumps again to maintain a 10 year run schedule between rebuilds.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Installation	0	10,000	0	0	0	10,000
machining	0	15,000	0	0	0	15,000
Parts	0	45,000	0	0	0	45,000
<b>Total</b>	<b>0</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	70,000	0	0	0	70,000
<b>Total</b>	<b>0</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>

### Project Timeline

1st quarter 2020 schedule removal 2nd quarter 2020 remove pump and have repair preformed.  
3rd quarter 2020 receive pump back and reinstall.

## Project: Replace existing chlorine contact basin

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2021

### Project Description

Remove existing chlorine contact basin, and reroute piping from existing basin to new basin which will need to be built as part of this project in a new location at the facility. This will be grouped into the digester / chlorine contact upgrade beginning in 2020.

### Project Justification

The current chlorine contact tank was built in 1956 as primary clarifiers, and repurposed in 1975 to chlorine contact tanks. The design does not allow for efficient usage of chemical, thus this upgrade could reduce annual usage of sodium hypochlorite. In 2011 we had several cracks filled to stop water from flowing out of the tanks into the ground, and the concrete structures have been determined by engineers to be unable to be rehabilitated due to age and structural cracking. The removal of the existing basins will also make room for the planned digester replacement scheduled to begin in 2021.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction Cost	0	1,410,659	1,410,659	0	0	2,821,318
Contingency	0	225,705	225,705	0	0	451,410
Engineering	0	163,636	163,636	0	0	327,272
<b>Total</b>	<b>0</b>	<b>1,800,000</b>	<b>1,800,000</b>	<b>0</b>	<b>0</b>	<b>3,600,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
PFA	0	1,800,000	1,800,000	0	0	3,600,000
<b>Total</b>	<b>0</b>	<b>1,800,000</b>	<b>1,800,000</b>	<b>0</b>	<b>0</b>	<b>3,600,000</b>

## Project Timeline

4th quarter 2019 work with engineers during preliminary design to determine where this will fit into the construction schedule. Review current technologies, and see if technological changes can occur.



## Project: Upgrade barscreen to improve removal of debris

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replace existing influent screens with new 1/4 opening screenings. The new screens would maintain the existing hydraulic capacity of 42 MGD.

### Project Justification

The main screen and rake are in need of replacing, and the current 1/2 clearing allows the passage of debris resulting in increased maintenance needs through the facility. In addition, the current screens negatively impacts the biosolids applied to farm fields by allowing debris to make it to the solids treatment process.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction Cost	0	1,097,178	0	0	0	1,097,178
Contingency	0	175,549	0	0	0	175,549
Engineering	0	127,273	0	0	0	127,273
<b>Total</b>	<b>0</b>	<b>1,400,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,400,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
PFA	0	1,400,000	0	0	0	1,400,000
<b>Total</b>	<b>0</b>	<b>1,400,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,400,000</b>

### Project Timeline

4th quarter 2019 work with engineers to determine best technology to accomplish better capture of paper products at the barscreen.

## Project: Upgrade current DAF electrical MCC

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2022

### Project Description

Remove existing MCC in the control room and digester building, and build an updated electrical room meeting current safety standards.

### Project Justification

The current electrical panel was built in 1975, and was repurposed in 2000, but the original equipment is still in use. The facility has experienced an arcflash incident on this panel, and currently is located under our lab. Due to this location we have had some issues with water spills in the lab reaching the electrical equipment and disabling equipment.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction Cost	0	309,561	0	309,561	0	619,122
Contingency	0	49,530	0	49,530	0	99,060
Engineering	0	35,909	0	35,909	0	71,818
<b>Total</b>	<b>0</b>	<b>395,000</b>	<b>0</b>	<b>395,000</b>	<b>0</b>	<b>790,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
PFA	0	395,000	0	395,000	0	790,000
<b>Total</b>	<b>0</b>	<b>395,000</b>	<b>0</b>	<b>395,000</b>	<b>0</b>	<b>790,000</b>

### Project Timeline

4th quarter 2019 work with engineers to determine further schedule, and see if this project is best grouped with other large capital projects.

## Project: Waste Receiving station expansion

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2021

### Project Description

expand the current waste receiving at the facility, or build new receiving station along Sakatah Dr. The receiving station would be large enough to accommodate a vac truck, a 5000 gallon non-potable water tanker, and portable bathroom dumping. If located offsite, there would be a fence, cameras, and an automated billing system for tracking usage at the facility. The site would also be a back-up water fill location for contractors, and could have the automated billing system tied into the water as well.

### Project Justification

The focus would be to offload contractor traffic on the existing station, and accommodate requests from contractors for an after hours dump and fill location in the city. Our current receiving station has a line of vehicles most summer days, and we will be using the existing one heavily during the digester upgrade further compounding usage of the existing station. In addition, having a contractor focused station would help the facility better track loading from contractors, and have a better mechanism for billing for reuse / water and dumping fees.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
automated billing system	0	0	35,000	0	0	35,000
construction	0	35,000	35,000	0	0	70,000
contingency	0	0	35,000	0	0	35,000
controls and electrical	0	30,000	30,000	0	0	60,000
engineering	0	35,000	15,000	0	0	50,000
Materials	0	150,000	100,000	0	0	250,000
<b>Total</b>	<b>0</b>	<b>250,000</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>500,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	250,000	250,000	0	0	500,000
<b>Total</b>	<b>0</b>	<b>250,000</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>500,000</b>

## Project Timeline

Spring 2019 - design facility as part of the preliminary digester upgrade work.

Spring 2020 - begin construction of new receiving pad.

## Project: Digester Complex Upgrade

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2022

### Project Description

Hire engineering firm to design and procure construction company to replace existing digesters with new digesters.

### Project Justification

Current digesters were built in 1956 with the original facility. They received a major upgrade in 1991, and are now at the end of their useful life. The boilers are not able to be upgraded to meet the needs due to current OSHA guidelines not in place when last upgraded. In addition, we have on digester which is leaking flammable biogas into the building where our electrical equipment and boilers are operating. This is a large safety factor, and if not for the large cost and other large construction projects needing to be completed to make room for this construction, would be requesting sooner.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
construction cost	0	0	1,000,000	2,700,000	0	3,700,000
engineering	0	0	600,000	300,000	0	900,000
equipment	0	0	8,000,000	6,000,000	0	14,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>9,600,000</b>	<b>9,000,000</b>	<b>0</b>	<b>18,600,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	0	9,600,000	9,000,000	0	18,600,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>9,600,000</b>	<b>9,000,000</b>	<b>0</b>	<b>18,600,000</b>

## Project Timeline

4th quarter of 2018 work on preliminary design and technology selection. 1st quarter 2019 design digesters and develop construction schedule. Procure bids in 4th quarter 2019. Begin construction 1st quarter 2020, and complete construction 4th quarter 2022.

## Project: Expansion of Existing Biosolids storage

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

### Project Description

Expand on existing Biosolids bunker to the south to increase our capacity to 12 months of biosolids storage.

### Project Justification

Currently our biosolids bunker only holds 10 months of storage. Thus, we must haul biosolids in both fall and winter. We want to remove the winter haul, since this ties up snowplows to accomplish this task, and we receive the most complaints about the product applied to the fields in the winter time. Finally, as the facility expands our storage time will only decrease, thus the planned expansion would allow for the goal of 12 months of storage to be met well into 2040.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
construction	0	0	300,000	0	0	300,000
engineering	0	0	150,000	0	0	150,000
materials	0	0	1,250,000	0	0	1,250,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,700,000</b>	<b>0</b>	<b>0</b>	<b>1,700,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	0	1,700,000	0	0	1,700,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,700,000</b>	<b>0</b>	<b>0</b>	<b>1,700,000</b>

### Project Timeline

4th quarter 2019 to design preliminary construction schedule to mesh with the digester upgrade beginning in 2020.

## Project: Main lift pump rebuild 2 of 6

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

### Project Description

Schedule to have a 3rd part company assist with removal of pump, send pump to manufacturer for inspection and rebuild of worn components, deliver parts back to facility, and reinstall pump by onsite staff.

### Project Justification

In 2010 the facility began rebuilding the six main lift pumps, all will be rebuilt by 2018. Thus in 2020 we will begin the rebuilding the pumps again to maintain a 10 year run schedule between rebuilds.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Equipment	0	0	52,000	0	0	52,000
installation	0	0	10,000	0	0	10,000
machining	0	0	10,000	0	0	10,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>72,000</b>	<b>0</b>	<b>0</b>	<b>72,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	0	72,000	0	0	72,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>72,000</b>	<b>0</b>	<b>0</b>	<b>72,000</b>

### Project Timeline

1st quarter 2021 schedule removal 2nd quarter 2021 remove pump and have repair preformed.  
3rd quarter 2021 receive pump back and reinstall.



## Project: ORP / pH probe replacement

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

### Project Description

Replace existing ORP and pH probes at the facility.

### Project Justification

Our ORP and pH probes are crucial for the operation of our disinfection system, which kills bacteria and viruses in our effluent and reuse water. These need to be replaced every 5 years, and were last replaced in 2016.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
ORP sensors	0	0	15,000	0	0	15,000
pH meters	0	0	5,000	0	0	5,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	0	20,000	0	0	20,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Project Timeline

1st quarter 2021 order probes. 2nd quarter have staff replace old probes with new.

## Project: Primary Knife valve replacement

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

### Project Description

Determine best way to bypass flow through facility. Schedule to have a 3rd part company remove old 20" valves, and replace with new 20" valves. The installation will require a full facility bypass for the duration of the replacement.

### Project Justification

Knife valves were placed in operation in 2000, and beginning to show signs of deterioration. If these valves are not replaced during the Primary clarifier upgrade, we would like this preformed.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
2 20" knife valves	0	0	30,000	0	0	30,000
Contractor Installation	0	0	20,000	0	0	20,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	0	50,000	0	0	50,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Project Timeline

1st quarter 2020 order valves, and procure contractor to preform installation. 3rd quarter 2020 receive valves, and schedule bypass of facility for installation to occur. Install valves, and place facility back in operation. Installation of the valves will be planned to coincide with digester upgrade construction, and utilize on site construction crews to reduce the mobilization cost.

## Project: Structural repairs to aeration basins 2 and 3

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2022

### Project Description

Remove existing walkways that are deteriorating, and repair or brace walls to extend life of the structure. Replace one walkway on each basin with one pre manufactured walkway.

### Project Justification

Walkways were installed in 1975, and the concrete is beginning to deteriorate. In addition, one of the walls bowed during the 2000 facility upgrade, and the stress is causing the concrete to shows signs of stress.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
construction	0	0	250,000	150,000	0	400,000
engineering	0	0	50,000	50,000	0	100,000
materials and equipment	0	0	100,000	200,000	0	300,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>400,000</b>	<b>400,000</b>	<b>0</b>	<b>800,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	0	400,000	400,000	0	800,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>400,000</b>	<b>400,000</b>	<b>0</b>	<b>800,000</b>

### Project Timeline

Fall of 2018 determine the scope and timeline to mesh with the digester upgrade.

## Project: Upgrade MCC 5

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

## Project Description

Update MCC 5 to meet requirements of new digester complex.

## Project Justification

Existing digester electrical panel is located in a non-NFPA environment, and will not be able to meet the new demands of expansion in our biosolids train.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2019	2020	2021	2022	2023	Total
MCC 5	0	0	400,000	0	0	400,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>400,000</b>	<b>0</b>	<b>0</b>	<b>400,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	0	400,000	0	0	400,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>400,000</b>	<b>0</b>	<b>0</b>	<b>400,000</b>

## Project Timeline

4th quarter 2020 work with engineers to determine further schedule, and group with other upgrades needed for digestion upgrade.

## Project: Main lift pump rebuild 3 of 6

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2022 - 2022

### Project Description

Schedule to have a 3rd part company assist with removal of pump, send pump to manufacturer for inspection and rebuild of worn components, deliver parts back to facility, and reinstall pump by onsite staff.

### Project Justification

In 2010 the facility began rebuilding the six main lift pumps, all will be rebuilt by 2018. Thus in 2020 we will begin the rebuilding the pumps again to maintain a 10 year run schedule between rebuilds.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
equipment	0	0	0	54,000	0	54,000
installation	0	0	0	10,000	0	10,000
machining	0	0	0	10,000	0	10,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>74,000</b>	<b>0</b>	<b>74,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	0	0	65,000	0	65,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65,000</b>	<b>0</b>	<b>65,000</b>

### Project Timeline

Contractor contacted 1st quarter 2022 and sent to 3rd party machine shop. 3rd quarter pump returned and install.

## Project: Replace DAF with new thickening process

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2022 - 2022

### Project Description

Remove existing DAF thickening system, and replace with newer thickening system. Currently a belt thickener or rotary drum thickener would be the planned replacements.

### Project Justification

The existing DAF thickeners have been running since 1975 with an upgrade from redwood flights to metal composite flights in 2003. The existing thickening process is too small to handle current loading rates. In addition, the equipment's controls are outdated, and lack any electrical efficiencies of newer equipment. Finally, our current system will be ineffective hydraulically and cause unwanted loading to new aeration technology needed to meet new regulatory limits. Currently the new aeration system is scheduled to begin construction in 2025.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction Cost	0	0	0	1,293,103	0	1,293,103
Contingency	0	0	0	206,897	0	206,897
Engineering	0	0	0	100,000	0	100,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,600,000</b>	<b>0</b>	<b>1,600,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
PFA	0	0	0	1,600,000	0	1,600,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,600,000</b>	<b>0</b>	<b>1,600,000</b>

### Project Timeline

4th quarter 2019 work with engineers during preliminary design to select most appropriate technology, and build into the design phase when construction will occur.

## Project: Switchgear Bucket Cleaning

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2022 - 2022

### Project Description

Hire 3rd party electrician to remove and clean main utility buckets in our primary switchgear building.

### Project Justification

Cleaning these every 5 years is crucial in keeping our electrical equipment properly running, and reduces the potential of a hazardous arcflash which would potential place parts of the facility out of service.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
contractual cleaning	0	0	0	15,000	0	15,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>	<b>0</b>	<b>15,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	0	0	15,000	0	15,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>	<b>0</b>	<b>15,000</b>

### Project Timeline

1st quarter 2022 schedule electrical contractor, and have buckets cleaned.

## Project: Upgrade regional trunk line - Thompson Ravine to WRRF (customer community line)

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2022 - 2022

### Project Description

Increase the overall size of the interceptor pipe running from Thompson Ravine to Pine street where it enters the WRRF.

### Project Justification

During the SEH collection study, and the Bolton and Menk / Black and Veatch facility plan, the collection interception entering the WRRF from the east to Thompson Ravine was determined to be a flow bottle neck during high flows. This has the potential cause back-ups of the sanitary system more often than other areas of the city, and have the potential to hinder growth of the city, as normal usage over the system is over loading sections of the interceptor.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
construction	0	0	0	1,500,000	0	1,500,000
contingency	0	0	0	275,555	0	275,555
engineering	0	0	0	500,000	0	500,000
Materials	0	0	0	2,500,000	0	2,500,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,775,555</b>	<b>0</b>	<b>4,775,555</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	0	0	4,775,555	0	4,775,555
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,775,555</b>	<b>0</b>	<b>4,775,555</b>



## Project Timeline

Fall 2021 review the plan with engineering. Spring 2022 procure bids for construction, Summer and fall 2022 perform construction of the sanitary interceptor.

## Project: Belt Filter Press Upgrade

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2023 - 2023

### Project Description

Replace and increase capacity of existing polymer system for the Belt Filter Press.

### Project Justification

Our facility plan identified this polymer system will need to be upgraded when we preform our digester upgrade.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
construction	0	0	0	0	48,000	48,000
engineering	0	0	0	0	35,000	35,000
equipment	0	0	0	0	475,000	475,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>558,000</b>	<b>558,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	0	0	0	558,000	558,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>558,000</b>	<b>558,000</b>

### Project Timeline

4th quarter 2020 work with engineers to determine further schedule, and see if this project is best grouped with digester upgrade.

## Project: Replacement of existing washer compactor, and install a second compactor

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2023 - 2023

### Project Description

Replace the existing washer compactor with a new one, and add an additional compactor for redundancy. Edited in 2019 to mesh with facility plan cost timeline, and price to mesh with engineering cost estimates.

### Project Justification

Existing grinder has a difficult time handling the increase in wet wipes, and requires a replacement of the grinder every other year at a cost of \$12,000. In addition, the entire skid needs to be moved monthly when we switch barscreens.

### Project Uses

	2019	2020	2021	2022	2023	Total
Engineering	0	0	0	0	80,588	80,588
Equipment cost	0	0	0	0	500,000	500,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>580,588</b>	<b>580,588</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Waste Water	0	0	0	0	580,588	580,588
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>580,588</b>	<b>580,588</b>

### Project Timeline

Second half of 2018 - work with engineers and vendors to see alternative options to mesh with planned barscreen replacement.





# **STORMWATER CAPITAL FUND**



## Cash Flow

Stormwater		Sources					
Year	Project	Expense	Stormwater Utility	State Bonding	Sales Tax	Sewer Utility	PFA
2019	Cree Point Drive improvements	\$ 159,000.00	\$ 159,000.00				
2019	Private property BMPs	\$ 100,000.00	\$ 100,000.00				
2019	Street reconstruction projects 2019	\$ 592,339.00	\$592,339.00				
2019	Premier Pond cleaning and stabilization	\$ 750,000.00	\$ 750,000.00				
2019	Lake St. pumping station	\$ 339,800.00	\$ 339,800.00				
		\$ 1,941,139.00	\$ 1,941,139.00	\$ -	\$ -	\$ -	\$ -
2020	Private property BMPs	\$ 100,000.00	\$ 100,000.00				
2020	Monks Avenue ravine	\$ 173,163.00	\$ 173,163.00				
2020	Indian Creek Stabilization and Naturalization	\$ 250,000.00				\$ 250,000.00	
2020	Indian Creek pump station facility & electrical	\$ 611,300.00	\$ 253,800.00				
2020	Street reconstruction projects 2019	\$ 603,060.00	\$603,060.00				
2020	2019 Warren St. basin expansion	\$ 1,200,000.00			\$ 240,000.00		\$960,000.00
		\$ 2,937,523.00	\$ 1,130,023.00	\$ -	\$ 240,000.00	\$ 250,000.00	\$ 960,000.00
2021	Land of Memories Bank Stabilization	\$ 1,922,673.00	\$ 200,000.00	\$ 1,722,673.00			

Year	Project	Expense	Stormwater Utility	State Bonding	Sales Tax	Sewer Utility	PFA
2021	Private property BMPs	\$ 100,000.00	\$ 100,000.00				
2021	Lake Dorothy & Clover Leaf Pond	\$ 1,500,000.00	\$ 1,500,000.00				
2021	Street reconstruction projects 2019	\$ 751,001.00	\$ 751,001.00				
		\$ 4,273,674.00	\$ 2,551,001.00	\$ 1,722,673.00	\$ -	\$ -	\$ -
2022	Private property BMPs	\$ 100,000.00	\$ 100,000.00				
	Honeymead Pump station facility & electrical	\$ 282,900.00	\$ 118,900.00				
2022	Warren Creek Facility & Electrical	\$ 621,550.00	\$ 152,050.00		\$ 469,500.00		
2022	Indian Creek Stabilization and Naturalization	\$ 250,000.00	\$ 250,000.00				
2022	Street reconstruction projects 2019	\$ 1,037,800.00	\$1,037,800.00				
		\$ 2,292,250.00	\$ 1,658,750.00	\$ -	\$ 469,500.00	\$ -	\$ -



## 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
Cree Point Drive Improvements	2019	159,000
Lake Street Pumping Station	2019	339,800
Premier Pond Cleaning and Stabilization	2019	750,000
Private Property BMPs	2019	100,000
Southeast Water Quality Project	2019	13,750,000
Street Reconstruction Projects 2019	2019	592,339
<b>Subtotal</b>		<b>15,691,139</b>
<b>Total</b>		<b>15,691,139</b>

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
2019 Warren Street Basin Expansion	2020	1,200,000
Indian Creek Pump Station Facility & Electrical	2020	611,300
Indian Creek Stabilization	2020	250,000
Monks Avenue Ravine	2020	173,163
Private Property BMPs	2020	100,000
Street Reconstruction Projects 2019	2020	603,060
<b>Subtotal</b>		<b>2,937,523</b>
<b>Total</b>		<b>2,937,523</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Lake Dorthy & Clover Leaf Pond	2021	1,500,000
Land Of Memories Bank Stabilization	2021	1,922,673
Private Property BMPs	2021	100,000
Street Reconstruction Projects 2019	2021	751,001
<b>Subtotal</b>		<b>4,273,674</b>
<b>Total</b>		<b>4,273,674</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Honeymead Pump Station Facility & Electrical	2022	282,900
Indian Creek Stabilization and Naturalization	2022	250,000
Private Property BMPs	2022	100,000
Street Reconstruction Projects 2019	2022	1,037,800
Warren Creek Facility & Electrical	2022	621,550
<b>Subtotal</b>		<b>2,292,250</b>
<b>Total</b>		<b>2,292,250</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Private Property BMPs	2023	100,000
Street Reconstruction Projects 2019	2023	632,690
<b>Subtotal</b>		<b>732,690</b>
<b>Total</b>		<b>732,690</b>

## Project: Cree Point Drive Improvements

Department: STORMWATER CAPITAL FUND

Project Years: 2019 - 2019

### Project Description

Installation of storm sewer from Teton Lane and Cree Court to Thopsome Ravine.

### Project Justification

Based on the results of the Cree Point Drive Study it was recommended that to minimize the erosion to private property, that public storm sewer should be piped from the current point of discharge to the receiving stream. This will minimize the erosion and further slope failure from public drainage.

### Engagement Strategy

A meeting has been held with the neighborhood reporting the results of the study in 2018.

An informational meeting will be held with the property owners prior to the feasibility hearing.

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	8,224	0	0	0	0	8,224
Construction	124,608	0	0	0	0	124,608
Contingency	12,461	0	0	0	0	12,461
Engineering	13,707	0	0	0	0	13,707
<b>Total</b>	<b>159,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>159,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Stormwater Utility	159,000	0	0	0	0	159,000
<b>Total</b>	<b>159,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>159,000</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Lake Street Pumping Station

Department: STORMWATER CAPITAL FUND

Project Years: 2019 - 2019

### Project Description

Lake Street Pump Station is located at the end of a cul-de-sac, near the intersection of North River Drive and Pauley Way. The total drainage area for the Lake Street pump station is approximately 292 acres. The Lake Street pump station has three vertical turbine pumps, with a design capacity of 10,000 GPM. This project will include necessary repairs outlined in the Flood Risk Reduction System report conducted by SEH. The improvements include reroofing and building envelope repairs, ventilation improvements, replacing the aging control and electrical gear, installation of a standby generator for emergency power, and installation of fall protection.

### Project Justification

Several deficiencies were noted in the station. These included structural deterioration in the building components and electrical issues that need to be addressed to ensure the reliability of the station. The detail of the deterioration and reliability issues are noted in the 2017 Flood Risk Reduction System Pump Station Modernization Study performed by SEH. This project is being proposed to be done as a Section 208 project with the US Army Corps of engineering. This may allow for additional outside funding from the Corps, but the amount will not be determined until the Section 208 application is submitted 18 months before the start of the project.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/bonding	17,576	0	0	0	0	17,576
Construction Cost	266,301	0	0	0	0	266,301
Contingency	26,630	0	0	0	0	26,630
Engineering	29,293	0	0	0	0	29,293
<b>Total</b>	<b>339,800</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>339,800</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Stormwater Utility	339,800	0	0	0	0	339,800
<b>Total</b>	<b>339,800</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>339,800</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project Completion

## Project: Premier Pond Cleaning and Stabilization

Department: STORMWATER CAPITAL FUND

Project Years: 2019 - 2019

### Project Description

The Premier Pond Cleaning and stabilization project will remove sediment that has been collected in the pond. Additionally, it will regrade and stabilize the banks of the pond to prevent erosion from wave action. Minor modifications may be made to the pond to meet current pollution removal standards and discharge rate requirements.

### Project Justification

The Premier Pond was constructed as a part of the Eastwood Energy Center development in the early 1990s. This pond was built as a rate control pond as pollutant removal standards were not in effect at the time of design. This pond not only is a stormwater facility it also is a part of the overall gateway treatment along the TH 22 corridor. As such it is required to be maintained to a standard in conformance with district requirements. No major maintenance has been performed on this pond, and sediment levels are over 2 feet, in most location warranting removal and disposal.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Administration	38,794	0	0	0	0	38,794
Contingency	58,777	0	0	0	0	58,777
Engineering	64,655	0	0	0	0	64,655
Stormwater	587,774	0	0	0	0	587,774
<b>Total</b>	<b>750,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>750,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Stormwater Utility	750,000	0	0	0	0	750,000
<b>Total</b>	<b>750,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>750,000</b>

## Project Timeline

April - Design

June - Bid

October - Construction

May 2020 - Final completion



## Project: Private Property BMPs

Department: STORMWATER CAPITAL FUND

Project Years: 2019 - 2023

### Project Description

As a part of the Surface Water Management Policy, a cost sharing program for property owners has been established. This program provides a public contribution to private improvements that are on surface water conveyances that carry public water.

### Project Justification

In order to promote improvements along surface waters a cost sharing program was established as a part of the Surface Water Management Policy. By promoting private investment along surface waters conveying public drainage property owner will be able to achieve the desired level of service of an improvement should for private property.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
BMPs	100,000	100,000	100,000	100,000	100,000	500,000
<b>Total</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>500,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Stormwater Utility	100,000	100,000	100,000	100,000	100,000	500,000
<b>Total</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>500,000</b>

### Project Timeline

The timeline is developed for individual projects as they are submitted.

## Project: Southeast Water Quality Project

Department: STORMWATER CAPITAL FUND

Project Years: 2019 - 2019

### Project Description

The SE Water Quality Project seeks to implement drainage management and associated water quality enhancements that are focused in the Southeast Drainage District and associated stream courses, including the main stem of the Minnesota River. The first phase of the project is already underway and consists of a comprehensive watershed study to identify the hydrologic and hydraulic characteristics of the watershed and the major creeks, ravine, and waterways. The study will also document areas with existing erosion issues, develop a watershed erosion management plan with recommended best management practices (BMP's), estimate potential sediment and pollution load reductions with the recommended BMPs, and potential agency permits required. The study is expected to be completed within the next 90 days. Several projects have already become apparent during the study and staff suggests that a bonding request is made by June 16, which is the deadline for preliminary submittal. The final bonding request is due on October 20, 2017, which will allow sufficient time for study results to be further analyzed and costs refined. The following projects and costs have been identified: 1. Regional ponding and wetland construction in the agricultural areas of the minor watersheds that drain into the city system 52 acres - \$10 million 2. In-channel improvements, including stream bank stabilization and fortification, right sizing crossing culverts and in-channel velocity reduction to reduce flow, and other in-channel mitigation - \$1 million 3. Bridge replacement/modification at the Indian Creek Diversion at Indian Lake Road - \$750,000 4. Riverbank stabilization along the Minnesota River - including Land of Memories and Riverfront Park/Waste Water Treatment Plant - \$2 million The project planned for 2019 will encompass the wetland restoration to achieve a large portion of the water quantity benefits.

### Project Justification

The public purpose of the projects is to mitigate existing water quality issues associated with the Southeast watershed. These projects will reduce discharges of sediment and nutrients, such as nitrogen and phosphorus, into the Minnesota River. For example, construction of the regional ponding in the rural minor watersheds will reduce uncontrolled peak flows into the city systems that currently reduce the system's capacity by 50 percent during high flows and has caused severe erosion within urban ravine systems and flooding of residential areas. Wetland impacts in the rural areas of the minor watersheds have removed approximately 210-acre feet of natural storm water retention and the constructed basins will aim to restore the retention capacity. In addition, the retention improvements will reduce total suspended solids by over 63 percent and reduce phosphorus discharge by over 70 percent. Mitigating bank erosion along the Minnesota River will also improve water quality by reducing sediment and associated nutrient loads, and will also protect city assets, such as the Land of Memories Well Field and the Regional Waste

Water Treatment Plan. It is expected that these projects can serve as a template for best management practices to reduce total maximum daily loads of nutrients and sediment into the Minnesota River and can be replicated elsewhere in the Minnesota River Watershed. Replicating and implementing the best management practices is imperative as municipalities in the watershed are facing increased challenges in treating water supplies that are designed to be sustainable by reducing reliance on deep aquifers and instead rely on shallower aquifers linked to the river systems. In Mankato's case, over 75 percent of the water supply is drawn from shallow aquifers under the Blue Earth and Minnesota Rivers; however, increasing nitrogen levels from non-point sources are forcing Mankato to consider either drawing additional water from deep aquifers, which have a limited supply due to longer recharge time, or examining additional treatment options that may cost upwards of \$10 million. The reduction of pollutants is a State mandate, but State enforcement and implementation to reduce non-point source pollutants are lacking and the costs to address the State's failure is falling to local governments. It is likely that unless nitrogen levels are addressed in the Minnesota River that Mankato will be forced to implement additional water treatment options and will request State assistance with those costs.

## Engagement Strategy

### City

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### ***Community projects, including sales tax items***

- ◆ Community Investment Plan open house (future opportunities--detailed on overall Community Investment Plan communications and engagement action plan)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Direct mail to area residents living near project
- ◆ Focus groups
- ◆ Pop-up events
- ◆ Informational materials (print and electronic)
- ◆ Online newsletter
- ◆ News release and email notification asking for input
- ◆ Utility insert
- ◆ Online engagement tools
- ◆ Surveys (online)
- ◆ Online city calendar
- ◆ Social media
- ◆ Video
- ◆ Other

## Project Uses

	2019	2020	2021	2022	2023	Total
In-channel improvements	1,000,000	0	0	0	0	1,000,000
Indian Creek Diversion bridge modification	750,000	0	0	0	0	750,000
Minnesota River Bank Stabilization	2,000,000	0	0	0	0	2,000,000
Wetland Restoration	10,000,000	0	0	0	0	10,000,000
<b>Total</b>	<b>13,750,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13,750,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	6,875,000	0	0	0	0	6,875,000
State Bonding	6,875,000	0	0	0	0	6,875,000
<b>Total</b>	<b>13,750,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13,750,000</b>

## Project Timeline

Design will take place last 2018 early 2019 with constriction taking place after harvest in 2019. The project is anticipated to be completed in spring of 2020.

## Project: Street Reconstruction Projects 2019

Department: STORMWATER CAPITAL FUND

Project Years: 2019 - 2023

### Project Description

Each year, the City of Mankato performs reconstruction and resurfacing projects identified in the Community Investment Plan. While each project has a different mix of funding sources, the costs associated with storm drainage improvements have generally been funded through the storm water utility fund. These costs represent the total storm drainage costs for all of the 2019 Surface Transportation Community Investment Plan.

### Project Justification

The stormwater utility fund the replacement, improvements and repair of the stormwater drainage system in the City of Mankato. This line item accounts for all of the drainage work that is funding by the utility in the annual Surface Transportation Community Investment Plan and related activities.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	592,339	603,060	751,001	1,037,800	632,690	3,616,890
<b>Total</b>	<b>592,339</b>	<b>603,060</b>	<b>751,001</b>	<b>1,037,800</b>	<b>632,690</b>	<b>3,616,890</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Stormwater Utility	592,339	603,060	751,001	1,037,800	632,690	3,616,890
<b>Total</b>	<b>592,339</b>	<b>603,060</b>	<b>751,001</b>	<b>1,037,800</b>	<b>632,690</b>	<b>3,616,890</b>

### Project Timeline

This is a budgetary line item that does not have a specific project process.

## Project: 2019 Warren Street Basin Expansion

Department: STORMWATER CAPITAL FUND

Project Years: 2020 - 2020

### Project Description

This project increase the capacity and treatment of the Warren Street storm water basin through rerouting pipes and constructing a second basin. IN order to complete the project, land acquisition or an easement is required from Minnesota State University, Mankato.

### Project Justification

This basin no longer has the required level of service to meet the needs of the watershed. The low level of service results in overtopping in lower intensity storms and increase the chance of failure of the embankment.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

#### City

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

#### Community

- ◆ Community Investment Plan open house (future opportunities--detailed on overall Community Investment Plan communications and engagement action plan)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Direct mail to area residents living near project
- ◆ Focus groups
- ◆ Pop-up events
- ◆ Informational materials (print and electronic)
- ◆ Online newsletter
- ◆ News release and email notification asking for input
- ◆ Utility insert
- ◆ Online engagement tools
- ◆ Surveys (online)
- ◆ Online city calendar
- ◆ Social media
- ◆ Video
- ◆ Other

## Project Uses

	2019	2020	2021	2022	2023	Total
Stormwater	0	1,200,000	0	0	0	1,200,000
<b>Total</b>	<b>0</b>	<b>1,200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,200,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
PFA	0	960,000	0	0	0	960,000
Sales Tax	0	240,000	0	0	0	240,000
<b>Total</b>	<b>0</b>	<b>1,200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,200,000</b>

## Project Timeline

January - Feasibility Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: Indian Creek Pump Station Facility & Electrical

Department: STORMWATER CAPITAL FUND

Project Years: 2020 - 2020

### Project Description

Indian Creek Pump Station is located northeast of the Sibley Parkway and Poplar Street Intersection. The total drainage area for the Indian Creek pump station is approximately 5,720 acres, however, during blocked flow conditions, approximately 3,800 acres of the watershed is diverted to the Blue Earth River. The Indian Creek pump station has four vertical turbine pumps, with a design capacity of 136,000 gpm

### Project Justification

Several deficiencies were noted in the station. These included structural deterioration in the building components and electrical issues that need to be addressed to ensure the reliability of the station. The detail of the deterioration and reliability issues are noted in the 2017 Flood Risk Reduction System Pump Station Modernization Study performed by SEH. This project is being proposed to be done as a Section 208 project with the US Army Corps of engineering. This may allow for additional outside funding from the Corps, but the amount will not be determined until the Section 208 application is submitted 18 months before the start of the project.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Pump Station Improvements	0	611,300	0	0	0	611,300
<b>Total</b>	<b>0</b>	<b>611,300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>611,300</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	0	357,500	0	0	0	357,500
Stormwater Utility	0	253,800	0	0	0	253,800
<b>Total</b>	<b>0</b>	<b>611,300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>611,300</b>



## Project Timeline

This project will be design the year prior to construction and submitted to COE for approval for construction in the project year.

## Project: Indian Creek Stabilization

Department: STORMWATER CAPITAL FUND

Project Years: 2020 - 2020

## Project Description

Indian Creek Stabilization

## Engagement Strategy

City

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

Neighborhood

- ◆ Community Investment Plan open house (future opportunities--detailed on overall Community Investment Plan communications and engagement action plan)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Direct mail to area residents living near project
- ◆ Neighborhood associations
- ◆ Awareness walk
- ◆ Focus groups
- ◆ Pop-up events
- ◆ Informational materials (print and electronic)
- ◆ Online newsletter
- ◆ Online engagement tools
- ◆ Surveys (mailed and/or online)
- ◆ Online city calendar
- ◆ Social media
- ◆ Other

## Project Uses

	2019	2020	2021	2022	2023	Total
Construction	0	250,000	0	0	0	250,000
<b>Total</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Sewer Utility	0	250,000	0	0	0	250,000
<b>Total</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

## Project: Monks Avenue Ravine

Department: STORMWATER CAPITAL FUND

Project Years: 2020 - 2020

## Project Description

Storm sewer outlet and pond improvements for the Monks Avenue drainage system.

## Project Justification

Improvements in-line with the recommendations of the Surface water Management policy.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

## Project Uses

	2019	2020	2021	2022	2023	Total
Ravine/Pond improvements	0	173,163	0	0	0	173,163
<b>Total</b>	<b>0</b>	<b>173,163</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>173,163</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Stormwater Utility	0	173,163	0	0	0	173,163
<b>Total</b>	<b>0</b>	<b>173,163</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>173,163</b>

## Project Timeline

January - Feasibility

March - Bid

May - Construction

October - Project completion

## Project: Lake Dorthy & Clover Leaf Pond

Department: STORMWATER CAPITAL FUND

Project Years: 2021 - 2021

### Project Description

Sediment removal, outlet maintenance and shore restoration for Lake Dorthy and Clover Leaf Pond.

### Project Justification

Both ponds have reach the end of their service life and need major cleaning and restoration. Outlet modifications will be made to bring the pond into compliance with current pollution control and discharge standards.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	0	77,586	0	0	77,586
Construction	0	0	1,175,549	0	0	1,175,549
Contingency	0	0	117,555	0	0	117,555
Engineering	0	0	129,310	0	0	129,310
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,500,000</b>	<b>0</b>	<b>0</b>	<b>1,500,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Stormwater Utility	0	0	1,500,000	0	0	1,500,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,500,000</b>	<b>0</b>	<b>0</b>	<b>1,500,000</b>

### Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Land Of Memories Bank Stabilization

Department: STORMWATER CAPITAL FUND

Project Years: 2021 - 2021

### Project Description

The City of Mankato has engaged SEH to complete a river bank condition assessment and preliminary design for stabilization measures at two locations shown in Figure 1 below: Land of Memories Park and Riverfront Park. River bank erosion of varying severity and type has been observed at each of these sites by the City, and the need for stabilization measures was increasing particularly at Land of Memories Park, where the bank erosion was encroaching upon the City's Municipal Well No. 15 infrastructure.

The condition assessment and preliminary design of stabilization measures included data collection through site visits and site survey, review of previously collected data, reports, and site drawings, geotechnical investigation and slope stability analyses, preliminary design of stabilization measures, and hydraulic analysis of proposed stabilization measures. Draft construction drawings, specifications, and cost estimates have also been prepared for the proposed stabilization measures.

### Project Justification

The cross section data collected near Municipal Well No. 15 at Land of Memories Park was compared to similar data collected by SEH in 2010, and this comparison showed an eastward (toward the well) shift of the east bank of approximately 30 feet over the seven year period. Elsewhere at Land of Memories Park, the survey data was compared to LiDAR data from 2005 and 2012, and this comparison showed an eastward shift of approximately 10 feet.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	0	0	1,456,571	0	0	1,456,571
Contingency	0	0	291,314	0	0	291,314
Engineering and Administration	0	0	174,788	0	0	174,788
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,922,673</b>	<b>0</b>	<b>0</b>	<b>1,922,673</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
State Bonding	0	0	1,722,673	0	0	1,722,673
Stormwater Utility	0	0	200,000	0	0	200,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,922,673</b>	<b>0</b>	<b>0</b>	<b>1,922,673</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion



## Project: Honeymead Pump Station Facility & Electrical

Department: STORMWATER CAPITAL FUND

Project Years: 2022 - 2022

### Project Description

Honeymead Pump Station is located adjacent to Sibley Park, at the intersection of Spence Street and West 3rd Street. It is part of the USACE Stage 2 drainage area, which is approximately 293 acres in size, and includes the area tributary to three storm water pump stations, including the Le Hillier East pump station and the Le Hillier West pump station. Of the three, only the Honeymead pump station is located within the City of Mankato. The Honeymead pump station has three vertical turbine pumps, with a design capacity of 52,400 gallons per minute (gpm).

### Project Justification

Several deficiencies were noted in the station. These included structural deterioration in the building components and electrical issues that need to be addressed to ensure the reliability of the station. The detail of the deterioration and reliability issues are noted in the 2017 Flood Risk Reduction System Pump Station Modernization Study performed by SEH. This project is being proposed to be done as a Section 208 project with the US Army Corps of engineering. This may allow for additional outside funding from the Corps, but the amount will not be determined until the Section 208 application is submitted 18 months before the start of the project.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Pump station updates	0	0	0	282,900	0	282,900
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>282,900</b>	<b>0</b>	<b>282,900</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	0	0	0	164,000	0	164,000
Stormwater Utility	0	0	0	118,900	0	118,900
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>282,900</b>	<b>0</b>	<b>282,900</b>

## Project Timeline

This project will be design the year prior to construction and submitted to COE for approval for construction in the project year.

## Project: Indian Creek Stabilization and Naturalization

Department: STORMWATER CAPITAL FUND

Project Years: 2022 - 2022

### Project Description

Installation and naturalization of the Indian Creek area within the responsibilities of the City of Mankato.

### Project Justification

As a part of the Southeast Drainage study, it was recommended that the Indian Creek channel be improved as recommended in the study and in conformance with the Surface Water Management Policy.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	0	0	12,931	0	12,931
Construction	0	0	0	195,925	0	195,925
Contingency	0	0	0	19,592	0	19,592
Engineering	0	0	0	21,552	0	21,552
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>250,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Stormwater Utility	0	0	0	250,000	0	250,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>250,000</b>

### Project Timeline

January - Feasibility

March - Bid

May - Construction

October - Project completion

## Project: Warren Creek Facility & Electrical

Department: STORMWATER CAPITAL FUND

Project Years: 2022 - 2022

### Project Description

Warren Creek Pump Station is located at the intersection of Minnesota Street and A Street. The contributing drainage area to the Warren Creek pump station is approximately 1,644 acres. The Warren Street pump station has four vertical turbine pumps, with a design capacity of 195,000 gpm.

### Project Justification

Several deficiencies were noted in the station. These included structural deterioration in the building components and electrical issues that need to be addressed to ensure the reliability of the station. The detail of the deterioration and reliability issues are noted in the 2017 Flood Risk Reduction System Pump Station Modernization Study performed by SEH. This project is being proposed to be done as a Section 208 project with the US Army Corps of engineering. This may allow for additional outside funding from the Corps, but the amount will not be determined until the Section 208 application is submitted 18 months before the start of the project.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Admin/Bonding	0	0	0	32,149	0	32,149
Construction	0	0	0	487,108	0	487,108
Contingency	0	0	0	48,711	0	48,711
Engineering	0	0	0	53,582	0	53,582
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>621,550</b>	<b>0</b>	<b>621,550</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	0	0	0	469,500	0	469,500
Stormwater Utility	0	0	0	152,050	0	152,050
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>621,550</b>	<b>0</b>	<b>621,550</b>

## Project Timeline

January - Feasibility

March - Bid

May - Construction

October - Project completion



# INFO TECH CAPITAL REPLACEMENT





## Cash Flow

	2019	2020	2021	2022	2023	
	2019	2020	2021	2022	2023	
Projected fund balance	\$64,591.00	\$299,591.00	\$589,591.00	\$904,591.00	\$1,219,591.00	
Info Tech Capital Replacement Transfer	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00	
Cell Tower Rent	\$220,000.00	\$220,000.00	\$220,000.00	\$220,000.00	\$220,000.00	
<b>Available Funds</b>	<b>\$534,591.00</b>	<b>\$769,591.00</b>	<b>\$1,059,591.00</b>	<b>\$1,374,591.00</b>	<b>\$1,689,591.00</b>	
Project Name	2019	2020	2021	2022	2023	Total
Intranet project	-\$20,000.00					<b>-\$20,000.00</b>
Security access control system upgrades and expansion	-\$15,000.00	-\$15,000.00	-\$15,000.00	-\$15,000.00	-\$15,000.00	<b>-\$75,000.00</b>
Fiber communications infrastructure expansion and maintenance	-\$50,000.00	-\$50,000.00	-\$50,000.00	-\$50,000.00	-\$50,000.00	<b>-\$250,000.00</b>
Video storage solution	-\$85,000.00	-\$50,000.00	-\$25,000.00	-\$25,000.00	-\$25,000.00	<b>-\$210,000.00</b>
Security camera system upgrades and expansion	-\$65,000.00	-\$65,000.00	-\$65,000.00	-\$65,000.00	-\$65,000.00	<b>-\$325,000.00</b>
<b>Total</b>	<b>-\$235,000.00</b>	<b>-\$180,000.00</b>	<b>-\$155,000.00</b>	<b>-\$155,000.00</b>	<b>-\$155,000.00</b>	<b>-\$880,000.00</b>
<b>Fund Balance</b>	<b>\$299,591.00</b>	<b>\$589,591.00</b>	<b>\$904,591.00</b>	<b>\$1,219,591.00</b>	<b>\$1,534,591.00</b>	
Unmanned Aerial System		-\$32,000.00				

## 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
Fiber Communications Infrastructure Expansion and Maintenance	2019	50,000
Intranet Project	2019	20,000
Security Access Control System Upgrades and Expansion	2019	15,000
Security Camera System Upgrades and Expansion	2019	65,000
Video Storage Solution	2019	85,000
<b>Subtotal</b>		<b>235,000</b>
<b>Total</b>		<b>235,000</b>

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Fiber Communications Infrastructure Expansion and Maintenance	2020	50,000
Security Access Control System Upgrades and Expansion	2020	15,000
Security Camera System Upgrades and Expansion	2020	65,000
Unmanned Aerial System (UAS)	2020	32,000
Video Storage Solution	2020	50,000
<b>Subtotal</b>		<b>212,000</b>
<b>Total</b>		<b>212,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Fiber Communications Infrastructure Expansion and Maintenance	2021	50,000
Security Access Control System Upgrades and Expansion	2021	15,000
Security Camera System Upgrades and Expansion	2021	65,000
Video Storage Solution	2021	25,000
<b>Subtotal</b>		<b>155,000</b>
<b>Total</b>		<b>155,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Fiber Communications Infrastructure Expansion and Maintenance	2022	50,000
Security Access Control System Upgrades and Expansion	2022	15,000
Security Camera System Upgrades and Expansion	2022	65,000
Video Storage Solution	2022	25,000
<b>Subtotal</b>		<b>155,000</b>
<b>Total</b>		<b>155,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Fiber Communications Infrastructure Expansion and Maintenance	2023	50,000
Security Access Control System Upgrades and Expansion	2023	15,000
Security Camera System Upgrades and Expansion	2023	65,000
Video Storage Solution	2023	25,000
<b>Subtotal</b>		<b>155,000</b>
<b>Total</b>		<b>155,000</b>

## Project: Fiber Communications Infrastructure Expansion and Maintenance

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2019 - 2023

### Project Description

Expand and maintain the city's fiber communication infrastructure to key city facilities. Identified facilities include; Airport, Water Utility Sites, Traffic Signals, Lighting System. As the city's fiber footprint continues to expand, portions of these funds need to be allocated for relocation and maintenance to the existing fiber communication infrastructure.

### Project Justification

By investing in high speed communication infrastructure, the network foundation is created for the City to facilitate the deployment of enterprise level technology systems (VoIP, Security Access, Security Cameras, etc.) across the City's network. The fiber infrastructure also interconnects other critical systems; Traffic Signals and Lighting System.

### Project Uses

	2019	2020	2021	2022	2023	Total
Fiber Infrastructure and Maintenance	50,000	50,000	50,000	50,000	50,000	250,000
<b>Total</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>250,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
IT Capital Replacement Fund	50,000	50,000	50,000	50,000	50,000	250,000
<b>Total</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>250,000</b>

### Project Timeline

This is an ongoing annual project

## Project: Intranet Project

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2019 - 2019

## Project Description

Redesign the current intranet to create a great tool to facilitate communication among employees at all levels to promote collaboration in the workplace.

## Project Justification

The current intranet has become outdated and reached its end of life. The next generation intranet will offer a truly unified, updated interface that makes it easy for city staff to securely access a variety of data resources and systems, increasing staff productivity.

## Project Uses

	2019	2020	2021	2022	2023	Total
Intranet Project	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
IT Capital Replacement Fund	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

## Project Timeline

2019

## Project: Security Access Control System Upgrades and Expansion

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2019 - 2023

### Project Description

Continue to expand and maintain the city's security access control system. Portions of these funds are to be allocated to maintenance and replacement of any failing access control components.

### Project Justification

Enterprise Security Access Control System is integrated in most city buildings on a single software platform. Provides the ability to configure employee access cards to specific doors in multiple buildings. This centralized system creates efficiencies for system management, alarming, and reporting features.

### Project Uses

	2019	2020	2021	2022	2023	Total
Fiber Infrastructure and Maintenance	15,000	15,000	15,000	15,000	15,000	75,000
<b>Total</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>75,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
IT Capital Replacement Fund	15,000	15,000	15,000	15,000	15,000	75,000
<b>Total</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>75,000</b>

### Project Timeline

This is an ongoing annual project.

## Project: Security Camera System Upgrades and Expansion

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2019 - 2023

### Project Description

Continue to expand and maintain the city's video security camera system. Portions of these funds need to be allocated to replace aging analog cameras with High Definition (HD) cameras.

### Project Justification

Continue to expand and maintain the city's video security camera system. Portions of these funds need to be allocated to replace aging analog cameras with High Definition (HD) cameras.

### Project Uses

	2019	2020	2021	2022	2023	Total
Security Camera System Upgrades and Replacements	65,000	65,000	65,000	65,000	65,000	325,000
<b>Total</b>	<b>65,000</b>	<b>65,000</b>	<b>65,000</b>	<b>65,000</b>	<b>65,000</b>	<b>325,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
IT Capital Replacement Fund	65,000	65,000	65,000	65,000	65,000	325,000
<b>Total</b>	<b>65,000</b>	<b>65,000</b>	<b>65,000</b>	<b>65,000</b>	<b>65,000</b>	<b>325,000</b>

### Project Timeline

This is an ongoing annual project.

## Project: Video Storage Solution

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2019 - 2023

### Project Description

Implement a unified video storage solution for the city's security video systems. Incorporating both the video security system and public safety squad car video system.

### Project Justification

Our current video storage configuration consists of 7 standalone video storage servers on the network. By implementing a unified storage solution, the city will have a more agile, scalable, reliable, and cost effective solution for future video storage demands. And looking into the future, public safety body cameras will eventually become a reality.

### Project Uses

	2019	2020	2021	2022	2023	Total
Video Storage Solution	85,000	50,000	25,000	25,000	25,000	210,000
<b>Total</b>	<b>85,000</b>	<b>50,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>210,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
IT Capital Replacement Fund	85,000	50,000	25,000	25,000	25,000	210,000
<b>Total</b>	<b>85,000</b>	<b>50,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>210,000</b>

### Project Timeline

This is an ongoing annual project.

## Project: Unmanned Aerial System (UAS)

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2020 - 2020

### Project Description

UAS (drone aircraft) including tablet and appropriate software for flight, zoom camera lens, thermal imaging camera, obstacle avoidance system, multi-charger, additional batteries, night operations strobe light kit, dual monitor system, plus licensing/training requirements.

### Project Justification

A UAS (drone aircraft) will allow DPS to enhance Mankato Community safety and well-being by providing real-time aerial views. The UAS technology allows for immediate aerial deployment versus the traditional methods of requesting a State Patrol helicopter or airplane. An UAS provides almost instantaneous deployment when timeliness matters most. Some of the identified uses for a UAS device are: search and rescue (especially during nighttime operations), natural disaster planning and evacuation, crime scene aerial photography and incident risk assessments. DPS respects our community privacy rights, and an UAS use would be consistent with judicial rulings and licensing.

### Project Uses

	2019	2020	2021	2022	2023	Total
UAS	0	32,000	0	0	0	32,000
<b>Total</b>	<b>0</b>	<b>32,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>32,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
IT Capital Replacement Fund	0	32,000	0	0	0	32,000
<b>Total</b>	<b>0</b>	<b>32,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>32,000</b>

### Project Timeline

1st Quarter 2018 - identify vendors and assess for cross departmental usages  
2nd Quarter 2018 - purchase equipment  
3rd Quarter 2018 - training and license  
4th Quarter 2018 - operationalize





# IGC CAPITAL REPLACEMENT FUND



## Cash Flow

	2019	2020	2021	2022	2023	
Projected fund Balance	-\$91,230.00	\$78,770.00	\$53,770.00	\$19,770.00	\$219,770.00	
<b>Transfer-in IGC</b>	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	
<b>Available Funds</b>	\$108,770.00	\$278,770.00	\$253,770.00	\$219,770.00	\$419,770.00	
Project Name	2019	2020	2021	2022	2023	Total
IGC - Interior lighting upgrades						\$0.00
IGC Roof replacement - front half		-\$225,000.00				-\$225,000.00
IGC 1st floor carpet replacement and painting						\$0.00
IGC building exterior cleaning and repairs	-\$30,000.00					-\$30,000.00
IGC elevator controls upgrade			-\$69,000.00			-\$69,000.00
IGC roof top HVAC units #1 & #2 replacement					-\$325,000.00	-\$325,000.00
IGC Skylights			-\$165,000.00			-\$165,000.00
<b>Total</b>	<b>-\$30,000.00</b>	<b>-\$225,000.00</b>	<b>-\$234,000.00</b>	<b>\$0.00</b>	<b>-\$325,000.00</b>	<b>-\$814,000.00</b>
<b>Fund Balance</b>	<b>\$78,770.00</b>	<b>\$53,770.00</b>	<b>\$19,770.00</b>	<b>\$219,770.00</b>	<b>\$94,770.00</b>	

## 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
IGC Building Exterior Cleaning & Repairs	2019	30,000
<b>Subtotal</b>		<b>30,000</b>
<b>Total</b>		<b>30,000</b>

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
IGC Roof Replacement - Front Half	2020	225,000
<b>Subtotal</b>		<b>225,000</b>
<b>Total</b>		<b>225,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
IGC Elevator Controls Upgrade	2021	69,000
IGC Skylights	2021	165,000
<b>Subtotal</b>		<b>234,000</b>
<b>Total</b>		<b>234,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
IGC Roof Top HVAC Units #1 & #2 Replacement	2023	325,000
<b>Subtotal</b>		<b>325,000</b>
<b>Total</b>		<b>325,000</b>

## Illustrative CIP Fund Overview

Project Name	Project Year
IGC - Interior Lighting Upgrades	265,000
IGC 1st Floor Carpet Replacement and Painting	130,000
<b>Subtotal</b>	<b>395,000</b>
<b>Total</b>	<b>395,000</b>

## Project: IGC Building Exterior Cleaning & Repairs

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2019 - 2019

### Project Description

The brick exterior is showing signs of deterioration, discoloration and joint repairs. The EIFS needs repairs and painting. Also consideration should be given to updating the signage for the entrance to the building.

### Project Justification

Improve the exterior look and structure of the building.

### Project Uses

	2019	2020	2021	2022	2023	Total
Exterior building upgrades	30,000	0	0	0	0	30,000
<b>Total</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
IGC Building	30,000	0	0	0	0	30,000
<b>Total</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Project Timeline

2nd quarter - 2019

## Project: IGC Roof Replacement - Front Half

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replace North 2nd floor roofs, Region 9 roof, and lower level bump out roofs

### Project Justification

These Roof sections were evaluated in 2017 and been identified for replacement within 2-3 years, they have exceeded its life expectancy and are continuously in need of numerous repairs.\

**Section 1:** \$100,054.50 7,330 sq ft.

**Section 2:** \$83,265.00 6,100 sq ft.

**Section 3:** \$20,720.70 1,518 sq ft.

**Section 4:** \$19,997.25 1,465 sq ft.

**Total:** \$224,037.45 16,413 sq ft.

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	0	219,000	0	0	0	219,000
Contingency	0	4,500	0	0	0	4,500
Project Management	0	1,500	0	0	0	1,500
<b>Total</b>	<b>0</b>	<b>225,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	0	225,000	0	0	0	225,000
<b>Total</b>	<b>0</b>	<b>225,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225,000</b>

### Project Timeline

These roof section can be replaced with extra maintenance over the next 2 to 3 years. Work done during summer months

## Project: IGC Elevator Controls Upgrade

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Upgrade original elevator mechanical relays and controls to solid state.

### Project Justification

This elevator was installed in 1996 making it 22 years old. The mechanical relays have been failing periodically over the past 3 years causing 3-2 entrapments per year.

### Project Uses

	2019	2020	2021	2022	2023	Total
Elevator upgrades	0	0	69,000	0	0	69,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>69,000</b>	<b>0</b>	<b>0</b>	<b>69,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
IGC Building	0	0	69,000	0	0	69,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>69,000</b>	<b>0</b>	<b>0</b>	<b>69,000</b>

### Project Timeline

2nd quarter - 2020

## Project: IGC Skylights

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2021 - 2021

## Project Description

Upgrade the skylights over the front entry, city council chambers, and finance department.

## Project Justification

Skylights are currently 16 years old and showing signs of fatigue. To prevent future failure, replacement is warranted at this time.

## Project Uses

	2019	2020	2021	2022	2023	Total
IGC Skylights	0	0	165,000	0	0	165,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>165,000</b>	<b>0</b>	<b>0</b>	<b>165,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
IGC Building	0	0	165,000	0	0	165,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>165,000</b>	<b>0</b>	<b>0</b>	<b>165,000</b>

## Project Timeline

2021



## Project: IGC Roof Top HVAC Units #1 & #2 Replacement

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2023 - 2023

### Project Description

RTU #1 and RTU #2 are the two main HVC units that handle the front main portion of the 1st and 2nd floors of the IGC. This will be a complete equipment replacement program.

### Project Justification

Both units have exceeded their 25 year life cycle and are experiencing increased maintenance. Motors on both units were replaced in April 2018.

### Project Uses

	2019	2020	2021	2022	2023	Total
IGC HVAC Replacement	0	0	0	0	325,000	325,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>325,000</b>	<b>325,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
IGC Building	0	0	0	0	325,000	325,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>325,000</b>	<b>325,000</b>

### Project Timeline

2020





# **PARKS CAPITAL REPLACEMENT FUND**



## Cash Flow

	2019	2020	2021	2022	2023	Total
Projected Fund Balance	\$225,500.00	\$257,500.00	\$257,500.00	\$332,500.00	\$382,500.00	
<b>Transfer to Parks Replacement</b>	\$375,000.00	\$375,000.00	\$375,000.00	\$375,000.00	\$375,000.00	
<b>Available Funds</b>	\$600,500.00	\$632,500.00	\$632,500.00	\$707,500.00	\$757,500.00	
Project Name	2019	2020	2021	2022	2023	Total
Highland Park Improvements		-\$150,000.00				-\$150,000.00
Sibley Park Overlook		-\$50,000.00				-\$50,000.00
Trail Creek Park Improvements			-\$130,000.00			-\$130,000.00
Rogers/Sibley Parkway Park Development			-\$170,000.00			-\$170,000.00
Hiniker Pond Park Improvements				-\$325,000.00		-\$325,000.00
Alexander Park Improvements					-\$150,000.00	-\$150,000.00
Land of Memories Park Improvements						\$0.00
Lions Park Improvements						\$0.00
Southview II Park Improvements						\$0.00
Erlandson Park Improvements						\$0.00
Buscher Park Improvements						\$0.00
Sibley Park Improvements (Ball Field Side)						\$0.00
Washington Park Improvements	-\$95,000.00					-\$95,000.00
Land of Memories Campground Improvements		-\$175,000.00				-\$175,000.00
Tourtellotte Park Drinking Fountain						\$0.00
Hiniker Pond - Sand Volleyball Courts	-\$30,000.00					-\$30,000.00
Park Monument Signs	-\$18,000.00					-\$18,000.00
Playground Surface Upgrades	-\$20,000.00					-\$20,000.00

	2019	2020	2021	2022	2023	Total
Development of Park on PWC Land - Behind Public Works Building					-\$225,000.00	-\$225,000.00
Stoltzman Park Improvements	-\$180,000.00					-\$180,000.00
<b>Total</b>	<b>-\$343,000.00</b>	<b>-\$375,000.00</b>	<b>-\$300,000.00</b>	<b>-\$325,000.00</b>	<b>-\$375,000.00</b>	<b>-\$1,718,000.00</b>
<b>Fund Balance</b>	<b>\$257,500.00</b>	<b>\$257,500.00</b>	<b>\$332,500.00</b>	<b>\$382,500.00</b>	<b>\$382,500.00</b>	

## Cash Flow

### 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
Hiniker Pond-Sand Volleyball Courts	2019	30,000
Park Monument Signs	2019	18,000
Playground Surface Upgrades	2019	20,000
Stoltzman Park Improvements	2019	180,000
Washington Park Improvements	2019	195,000
<b>Subtotal</b>		<b>443,000</b>
<b>Total</b>		<b>443,000</b>

### 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Highland Park Improvements	2020	250,000
Land of Memories Campground Improvements	2020	175,000
Sibley Park Overlook	2020	50,000
<b>Subtotal</b>		<b>475,000</b>
<b>Total</b>		<b>475,000</b>

### 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Rogers/Sibley Parkway Park Development	2021	170,000
Trail Creek Park Improvements	2021	130,000
<b>Subtotal</b>		<b>300,000</b>
<b>Total</b>		<b>300,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Hiniker Pond Park Improvements	2022	325,000
<b>Subtotal</b>		<b>325,000</b>
<b>Total</b>		<b>325,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Alexander Park Improvements	2023	150,000
Development of Park on PWC Land-Behind Public Works Building	2023	225,000
<b>Subtotal</b>		<b>375,000</b>
<b>Total</b>		<b>375,000</b>

## Illustrative CIP Fund Overview

Project Name	Project Year
Erlandson Park Improvements	200,000
Land of Memories Park Improvements	150,000
Lions Park Improvements	125,000
Sibley Park Improvements (Ball field Side)	350,000
Southview II Park Improvements	200,000
Tourtellotte Park Drinking Fountain	32,000
<b>Subtotal</b>	<b>1,057,000</b>
<b>Total</b>	<b>1,057,000</b>

## Project: Hiniker Pond-Sand Volleyball Courts

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2019 - 2019

### Project Description

Installation of Sand Volleyball Courts at Hiniker Pond.

### Project Justification

Hiniker Pond currently has minimal amenities. As we work towards revitalization of the facility, the addition of a sand volleyball court will increase the number of activities available to the public and promote additional use.

### Project Uses

	2019	2020	2021	2022	2023	Total
CMR Amount	30,000	0	0	0	0	30,000
<b>Total</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Parks Building	30,000	0	0	0	0	30,000
<b>Total</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Project Timeline

To be completed in 2019.



## Project: Park Monument Signs

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2019 - 2019

### Project Description

Park monument signs identify the park name, address, and city logo. The proposed parks for 2019 are Emerson Park, Heritage Estates Park, and Land of Memories Park.

### Project Justification

To develop a consistent image of Mankato's park system with an easily identifiable, contemporary and timeless look.

### Project Uses

	2019	2020	2021	2022	2023	Total
CMR Amount	18,000	0	0	0	0	18,000
<b>Total</b>	<b>18,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	18,000	0	0	0	0	18,000
<b>Total</b>	<b>18,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18,000</b>

### Project Timeline

To be completed in 2019.

## Project: Playground Surface Upgrades

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2019 - 2019

### Project Description

Remove the sand fall surface in municipal playgrounds and install a woodchip fall surface. Parks scheduled for the fall base conversion are Buscher Park, Washington Park, and Franklin Rogers Park.

### Project Justification

Many of our playgrounds with sand surfaces have ground bees and a variety of wasps living in the sand/grass interface. Some of these insects pose a threat to public safety while others just look threatening. This deters use of our public parks and increases operation costs to have eradications performed.

### Project Uses

	2019	2020	2021	2022	2023	Total
CMR Amount	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Parks Building	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Project Timeline

Sand base conversion begins in 2018 with completion in 2019.

## Project: Stoltzman Park Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2019 - 2019

### Project Description

Make improvements to Stoltzman Park and add amenities to the area for public usage such as a playground, shelter, grill and other park amenities defined during neighborhood outreach.

### Project Justification

The Lincoln Park neighborhood is lacking a neighborhood park. We have received multiple requests from this neighborhood requesting a neighborhood park be established. There is current a neighborhood working group that is meeting to discuss park elements and organizing neighborhood input.

### Project Uses

	2019	2020	2021	2022	2023	Total
Parking Lot Improvements	130,000	0	0	0	0	130,000
Shelter	50,000	0	0	0	0	50,000
<b>Total</b>	<b>180,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>180,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	180,000	0	0	0	0	180,000
<b>Total</b>	<b>180,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>180,000</b>

### Project Timeline

2018-Playground installation & Park elements determined by public process 2019-Shelter installation and parking lot improvements

## Project: Washington Park Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2019 - 2019

### Project Description

A new playground unit will be installed in Washington Park. The play equipment will be designed to meet CPSC requirements for safe play equipment and will provide opportunities for play in accordance with ADA requirements.

### Project Justification

The Washington Park playground equipment is life cycled out. It is also difficult to find replacement parts for this unit. Due to it's age and condition, the unit is scheduled for replacement.

### Project Uses

	2019	2020	2021	2022	2023	Total
Other Park Improvements	95,000	0	0	0	0	95,000
Playground	100,000	0	0	0	0	100,000
<b>Total</b>	<b>195,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>195,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	95,000	0	0	0	0	95,000
CBDG	100,000	0	0	0	0	100,000
<b>Total</b>	<b>195,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>195,000</b>

### Project Timeline

To be completed in 2019.

## Project: Highland Park Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

A new playground unit will be installed in Highland Park. The play equipment will be designed to meet CPSC requirements for safe play equipment and will provide opportunities for play in accordance with ADA requirements.

### Project Justification

The Highland Park playground equipment is life cycled out. It is also difficult to find replacement parts for this unit. Due to it's age and condition, the unit is scheduled for replacement.

### Project Uses

	2019	2020	2021	2022	2023	Total
Other Park Improvements	0	70,000	0	0	0	70,000
Playground	0	180,000	0	0	0	180,000
<b>Total</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	0	150,000	0	0	0	150,000
CBDG	0	100,000	0	0	0	100,000
<b>Total</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

### Project Timeline

Preliminary grading work to be completed in 2019 with playground installation, park amenities, and final grading done in 2020.

## Project: Land of Memories Campground Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Install a new shower/restroom facility at the Land of Memories Campground to replace the existing facility.

### Project Justification

The existing shower/restroom facility was constructed in 1981. No significant improvements have been made since its construction. The facility is in need of repairs and modern updates to provide a contemporary and modern feel to park users.

### Project Uses

	2019	2020	2021	2022	2023	Total
New Shower/Restroom Facility	0	175,000	0	0	0	175,000
<b>Total</b>	<b>0</b>	<b>175,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	0	175,000	0	0	0	175,000
<b>Total</b>	<b>0</b>	<b>175,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175,000</b>

### Project Timeline

To be completed in 2020.

## Project: Sibley Park Overlook

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Reconstruct the wall around the Sibley Park outlook and install a base which allows for adequate drainage in the future. A fence will also be installed above the wall to provide adequate viewing opportunities while ensuring public safety.

### Project Justification

The wall on the outlook has been pushed out approximately 6 inches by the freeze thaw cycle. The wall is in danger of falling and could pose a public hazard if necessary repairs are not made.

### Project Uses

	2019	2020	2021	2022	2023	Total
Wall reconstruction	0	50,000	0	0	0	50,000
<b>Total</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	0	50,000	0	0	0	50,000
<b>Total</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Project Timeline

To be completed in 2020.

## Project: Rogers/Sibley Parkway Park Development

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Develop the lot located at the SE corner of Rogers Street and Sibley Parkway into a basic neighborhood park with a small playground unit and a trail.

### Project Justification

The neighborhood is lacking a neighborhood park. They are in fairly close proximity to Sibley Park, however this is a very popular Community Park with a regional draw. This park would fulfill the needs of the area residents for a neighborhood park and create a small space for local gatherings.

### Project Uses

	2019	2020	2021	2022	2023	Total
Park Development	0	0	170,000	0	0	170,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>170,000</b>	<b>0</b>	<b>0</b>	<b>170,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	0	0	70,000	0	0	70,000
CBDG	0	0	100,000	0	0	100,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>170,000</b>	<b>0</b>	<b>0</b>	<b>170,000</b>

### Project Timeline

To be completed in 2021.



## Project: Trail Creek Park Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Install a two stall family restroom facility within the park and bring electrical power to the shelter.

### Project Justification

The neighborhood is rich with in home child care providers. Many of these providers take the children to the park on a daily basis which creates a very busy environment. While at the park, the only restroom facility is a portable restroom which prevents the child care provider from supervising the other children while supporting younger children in their toileting needs. This park also serves as a trail head for the neighborhood to access the Sakatah Trail. There is currently no power at the shelter. This limits the neighborhood usage.

### Project Uses

	2019	2020	2021	2022	2023	Total
Power to Shelter	0	0	10,000	0	0	10,000
Prefabricated Restroom Facility	0	0	120,000	0	0	120,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>130,000</b>	<b>0</b>	<b>0</b>	<b>130,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	0	0	130,000	0	0	130,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>130,000</b>	<b>0</b>	<b>0</b>	<b>130,000</b>

### Project Timeline

To be completed in 2021.

## Project: Hiniker Pond Park Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2022 - 2022

### Project Description

An open air shelter with electricity and restroom facility will be erected on the east side of the pond to provide an opportunity for larger gatherings. Angled parking will also be installed to provide parking opportunities near the sand volleyball courts and the new shelter. A fitness obstacle course will also be stationed at multiple locations along the trail around Hiniker Pond to provide an outdoor fitness opportunity for the public.

### Project Justification

Hiniker Park currently has minimal amenities. As we work towards revitalization of the facility, the addition of a second shelter, a fitness obstacle course and angled parking near the sand volleyball court and new shelter location will increase the number of activities and amenities available to the public and promote additional use.

### Project Uses

	2019	2020	2021	2022	2023	Total
Angled Parking	0	0	0	25,000	0	25,000
Fitness Course	0	0	0	200,000	0	200,000
Shelter	0	0	0	100,000	0	100,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>325,000</b>	<b>0</b>	<b>325,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	0	0	0	325,000	0	325,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>325,000</b>	<b>0</b>	<b>325,000</b>

### Project Timeline

To be completed in 2022

## Project: Alexander Park Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2023 - 2023

### Project Description

Replace the existing shelter and restroom facility with a unit of similar size, but offers restroom access from the side.

### Project Justification

The restroom facility and shelter were built in 1990. The way the neighborhood utilizes these facilities has changed over the years and is in need of improvements.

### Project Uses

	2019	2020	2021	2022	2023	Total
Other Park Improvements	0	0	0	0	50,000	50,000
Shelter	0	0	0	0	100,000	100,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>	<b>150,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	0	0	0	0	50,000	50,000
CBDG	0	0	0	0	100,000	100,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>	<b>150,000</b>

### Project Timeline

To be completed in 2022.

## Project: Development of Park on PWC Land-Behind Public Works Building

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2023 - 2024

### Project Description

Develop a portion of the parcel of land, located behind the Public Works Center where Cameo Lane comes to a dead end, into a neighborhood park.

### Project Justification

Phase 1 of 2-This neighborhood is currently lacking a neighborhood park. The closest park is Thomas Park, but this requires the children to cross Hoffman Road.

### Project Uses

	2019	2020	2021	2022	2023	Total
Grading and Utility Installation	0	0	0	0	225,000	225,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225,000</b>	<b>225,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	0	0	0	0	225,000	225,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225,000</b>	<b>225,000</b>

### Project Timeline

Grading and utility installation would take place in 2023 with playground and park amenities being installed in 2024.



# **PUBLIC WORKS BUILDING REPLACEMENT FUND**



## Cash Flow

	2019	2020	2021	2022	2023	Total
Projected Fund Balance	\$249,641.00	\$463,641.00	\$476,641.00	\$826,641.00	\$1,176,641.00	
<b>Transfer-In PWC</b>	\$500,000.00	\$500,000.00	\$500,000.00	\$500,000.00	\$500,000.00	
<b>Available Funds</b>	\$749,641.00	\$963,641.00	\$976,641.00	\$1,326,641.00	\$1,676,641.00	
Project Name	2019	2020	2021	2022	2023	Total
2 new site cameras	-\$10,000.00					-\$10,000.00
Bay 3 pressure washer	-\$11,000.00					-\$11,000.00
Lunch room tables and chairs		-\$20,000.00				-\$20,000.00
PWC Master Plan phase III - Cold Storage						\$0.00
PWC Master Plan Phase IV - Covered Materials Storage						-\$600,000.00
Fuel pump replacement at PWC	-\$60,000.00					-\$60,000.00
PWC Building exterior cleaning & repairs	-\$55,000.00					-\$55,000.00
PWC garage area restroom upgrade		-\$120,000.00				-\$120,000.00
PWC floor drain replacement		-\$25,000.00				-\$25,000.00
PWC Master Plan Phase I - site preparation		-\$150,000.00				-\$150,000.00
DNR/Old Utility buildings - building and HVAC upgrades		-\$22,000.00				-\$22,000.00
PWC Master Plan Phase II - heated & cold storage						\$0.00
New fuel station	-\$150,000.00	-\$150,000.00	-\$150,000.00	-\$150,000.00		-\$600,000.00
<b>Total</b>	<b>-\$286,000.00</b>	<b>-\$487,000.00</b>	<b>-\$150,000.00</b>	<b>-\$150,000.00</b>	<b>\$0.00</b>	<b>-\$4,173,000.00</b>
Fund Balance	\$463,641.00	\$476,641.00	\$826,641.00	\$1,176,641.00	\$1,676,641.00	

## 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
Fuel Pump Replacement at PWC	2019	60,000
Public Works Campus - 2 New Site Cameras	2019	10,000
Public Works Campus - New Fuel Station	2019	150,000
PWC Building Exterior Cleaning & Repairs	2019	55,000
<b>Subtotal</b>		<b>275,000</b>
<b>Total</b>		<b>275,000</b>

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
DNR/Old Utility Buildings - Building and HVAC Upgrades	2020	22,000
Public Works Campus - Lunch Room Tables and Chairs	2020	20,000
Public Works Campus - New Fuel Station	2020	150,000
PWC Floor Drain Replacement	2020	25,000
PWC Garage Area Restroom Upgrade	2020	120,000
PWC Master Plan Phase I - Site Preparation	2020	150,000
<b>Subtotal</b>		<b>487,000</b>
<b>Total</b>		<b>487,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Public Works Campus - New Fuel Station	2021	150,000
<b>Subtotal</b>		<b>150,000</b>
<b>Total</b>		<b>150,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Public Works Campus - New Fuel Station	2022	150,000
<b>Subtotal</b>		<b>150,000</b>
<b>Total</b>		<b>150,000</b>



## Illustrative CIP Fund Overview

Project Name	Project Year
PWC Master Plan Phase II - Heated & Cold Storage	2,500,000
PWC Master Plan Phase III - Cold Storage	1,100,000
PWC Master Plan Phase IIII - Covered Materials Storage	600,000
Rasmussen Woods Improvements	450,000
<b>Subtotal</b>	<b>4,650,000</b>
<b>Total</b>	<b>4,650,000</b>

## Project: Fuel Pump Replacement at PWC

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2019 - 2019

### Project Description

Install new fuel pumps

### Project Justification

Replace existing fuel pumps

### Project Uses

	2019	2020	2021	2022	2023	Total
PWC - Fuel pump replacement	60,000	0	0	0	0	60,000
<b>Total</b>	<b>60,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Public Works Building	60,000	0	0	0	0	60,000
<b>Total</b>	<b>60,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60,000</b>

### Project Timeline

2nd quarter - 2019

## Project: Public Works Campus - 2 New Site Cameras

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2019 - 2019

### Project Description

Two new site cameras.

### Project Justification

Site security. Currently there are no security cameras on the south entrance, adding these cameras will provide the necessary surveillance for existing fuel pumps, the south entrance gate and related areas.

### Project Uses

	2019	2020	2021	2022	2023	Total
Cameras	10,000	0	0	0	0	10,000
<b>Total</b>	<b>10,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
General Fund	10,000	0	0	0	0	10,000
<b>Total</b>	<b>10,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,000</b>

## Project: Public Works Campus - Lunch Room Tables and Chairs

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2019 - 2020

### Project Description

New lower level lunch room tables and chairs.

### Project Justification

The existing 8 year old plastic tables and chairs were a temporary solution to occupy the building. They have exceeded the recommended time of 5 years. They are becoming unsightly and worn looking. the original estimate was \$15,000.

### Project Uses

	2019	2020	2021	2022	2023	Total
Tables and Chairs	0	20,000	0	0	0	20,000
<b>Total</b>	<b>0</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
General Fund	0	20,000	0	0	0	20,000
<b>Total</b>	<b>0</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

## Project: Public Works Campus - New Fuel Station

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2019 - 2022

### Project Description

Install a New Fueling Station with Canopy for the Public Works Center

### Project Justification

New Fuel Station is to replace the old fueling pumps and install a new canopy over the station area which will help prevent rain water from washing fuel contaminants into the storm drain system. This project will have 80% funding from MNDOT/Federal Government and 20% from the City of Mankato.

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction New Station	132,500	132,500	132,500	132,500	0	530,000
Contingency	3,000	3,000	3,000	3,000	0	12,000
Demolition Old Station	12,500	12,500	12,500	12,500	0	50,000
Engineering	2,000	2,000	2,000	2,000	0	8,000
<b>Total</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>0</b>	<b>600,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Grant	120,000	120,000	120,000	120,000	0	480,000
Public Works Building	30,000	30,000	30,000	30,000	0	120,000
<b>Total</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>0</b>	<b>600,000</b>

### Project Timeline

Once Grant funding is available from MNDOT / Federal 80/20%. Location and design begin and construction of the new fuel station can begin construction early spring. This work can be done while the existing fuel station is still in service, not creating any disruption of service. Once the new station is on line the old fuel station can be removed.

## Project: PWC Building Exterior Cleaning & Repairs

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2019 - 2019

### Project Description

The brick exterior is showing signs of deterioration, discoloration and joint repairs.

### Project Justification

Improve the exterior look of the building.

### Project Uses

	2019	2020	2021	2022	2023	Total
PWC Exterior Cleaning & Repairs	55,000	0	0	0	0	55,000
<b>Total</b>	<b>55,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>55,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Public Works Building	55,000	0	0	0	0	55,000
<b>Total</b>	<b>55,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>55,000</b>

### Project Timeline

2nd quarter - 2019

## Project: DNR/Old Utility Buildings - Building and HVAC Upgrades

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replace 4 exterior doors, bathroom plumbing fixtures, carpet replacement in the 117 Rogers Street (DNR), 3 fan coil units in the 750 Mound Avenue.

### Project Justification

Building upgrades

### Project Uses

	2019	2020	2021	2022	2023	Total
Building and HVAC Upgrades	0	22,000	0	0	0	22,000
<b>Total</b>	<b>0</b>	<b>22,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Water Utility	0	22,000	0	0	0	22,000
<b>Total</b>	<b>0</b>	<b>22,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22,000</b>

### Project Timeline

2nd quarter - 2020

## Project: PWC Floor Drain Replacement

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replace the failing floor drains in Bay 2 & 3.

### Project Justification

Floor drains need to replacement to continue working properly.

### Project Uses

	2019	2020	2021	2022	2023	Total
PWC floor drain replacement	0	25,000	0	0	0	25,000
<b>Total</b>	<b>0</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Public Works Building	0	25,000	0	0	0	25,000
<b>Total</b>	<b>0</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Project Timeline

2nd quarter - 2020



## Project: PWC Garage Area Restroom Upgrade

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Remodel the garage restrooms.

### Project Justification

These restrooms are from the original 1960's construction and have most of the original plumbing fixtures. They currently do not meet the current ADA standards.

### Project Uses

	2019	2020	2021	2022	2023	Total
PWC restroom upgrades	0	120,000	0	0	0	120,000
<b>Total</b>	<b>0</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Public Works Building	0	120,000	0	0	0	120,000
<b>Total</b>	<b>0</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

### Project Timeline

2nd quarter - 2020

## Project: PWC Master Plan Phase I - Site Preparation

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

The storm drain system and soil contamination will be to replace the existing storm drain system and mitigate the necessary areas of soil contamination.

### Project Justification

Master Plan for Public Works Center Improvements.

### Project Uses

	2019	2020	2021	2022	2023	Total
PWC Master Plan Phase I	0	150,000	0	0	0	150,000
<b>Total</b>	<b>0</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Public Works Building	0	150,000	0	0	0	150,000
<b>Total</b>	<b>0</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

### Project Timeline

2nd quarter - 2020



# **PUBLIC SAFETY BUILDING REPLACEMENT FUND**



## Cash Flow

	2019	2020	2021	2022	2023	Total
Fund Balance	\$181,189.00	\$243,689.00	\$276,189.00	\$378,689.00	\$481,189.00	
Transfer-In PSC	\$102,500.00	\$102,500.00	\$102,500.00	\$102,500.00	\$102,500.00	
Available Funds	\$283,689.00	\$346,189.00	\$378,689.00	\$481,189.00	\$583,689.00	
Project Name	2019	2020	2021	2022	2023	Total
Public Safety Ramp Coating & Repairs		-\$20,000.00				-\$20,000.00
Animal Impound Building - HVAC Improvements	-\$20,000.00					-\$20,000.00
PSC Building exterior cleaning and repairs	-\$20,000.00					-\$20,000.00
Public Safety Center state street HVAC upgrades		-\$50,000.00				-\$50,000.00
<b>Total</b>	<b>-\$40,000.00</b>	<b>-\$70,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>-\$110,000.00</b>
<b>Fund Balance</b>	<b>\$243,689.00</b>	<b>\$276,189.00</b>	<b>\$378,689.00</b>	<b>\$481,189.00</b>	<b>\$583,689.00</b>	

## 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
Animal Impound Building - HVAC Improvements	2019	20,000
PSC Building Exterior Cleaning and Repairs	2019	20,000
<b>Subtotal</b>		<b>40,000</b>
<b>Total</b>		<b>40,000</b>

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Public Safety Center State Street HVAC Upgrades	2020	50,000
Public Safety Ramp Coating & Repairs	2020	20,000
<b>Subtotal</b>		<b>70,000</b>
<b>Total</b>		<b>70,000</b>

## Project: Animal Impound Building - HVAC Improvements

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2019 - 2019

### Project Description

This will update the animal impound HVAC equipment to a forced air heating and air conditioning for the front half and small boiler for animal confinement area.

### Project Justification

To keep a controlled environment for both staff and animal safety.

### Project Uses

	2019	2020	2021	2022	2023	Total
HVAC Improvements	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Parks Building	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Project Timeline

2nd quarter - 2019

## Project: PSC Building Exterior Cleaning and Repairs

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2019 - 2019

### Project Description

The brick exterior is showing signs of deterioration, discoloration and joint repairs.

### Project Justification

Improve exterior look of building.

### Project Uses

	2019	2020	2021	2022	2023	Total
PSC Building Repairs	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Project Timeline

2nd quarter - 2019

## Project: Public Safety Center State Street HVAC Upgrades

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Upgrade the buildings 3 force air furnaces and 2 a/c condensers.

### Project Justification

These units are 15+ years old and are showing signs of fatigue.

### Project Uses

	2019	2020	2021	2022	2023	Total
PSC State Street HVAC Upgrades	0	50,000	0	0	0	50,000
<b>Total</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	0	50,000	0	0	0	50,000
<b>Total</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Project Timeline

2nd quarter - 2020



## Project: Public Safety Ramp Coating & Repairs

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Public Safety Center parking ramp top level coatings and concrete repairs.

### Project Justification

There are developing locations where concrete structure is in need of repairs and several areas of the top level of the parking ramp will either need repairs or replacement.

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction & Repairs	0	18,000	0	0	0	18,000
Project Management	0	2,000	0	0	0	2,000
<b>Total</b>	<b>0</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	0	20,000	0	0	0	20,000
<b>Total</b>	<b>0</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Project Timeline

Work can only be completed during the summer months.





## Sales Tax CIP





## **SALES TAX - RIVERFRONT PARK**



## Cash Flow

	2019	2020	2021	2022	2023	Total
Fund Balance	-\$176,500.00	-\$26,500.00	\$123,500.00	\$273,500.00	\$423,500.00	
Sales Tax - RFP	\$150,000.00	\$150,000.00	\$150,000.00	\$150,000.00	\$150,000.00	
<b>Available Funds</b>	-\$26,500.00	\$123,500.00	\$273,500.00	\$423,500.00	\$573,500.00	
Project Name	2019	2020	2021	2022	2023	Total
<b>Amphitheater roof</b>					-\$320,000.00	-\$320,000.00
<b>Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>-\$320,000.00</b>	<b>-\$320,000.00</b>
<b>Balance on December 31st</b>	<b>-\$26,500.00</b>	<b>\$123,500.00</b>	<b>\$273,500.00</b>	<b>\$423,500.00</b>	<b>\$253,500.00</b>	<b>\$1,047,500.00</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Amphitheater roof	2022	320,000
<b>Subtotal</b>		<b>320,000</b>
<b>Total</b>		<b>320,000</b>

## Illustrative CIP Fund Overview

Project Name	Project Year
Chain Link Fence at Riverfront Park	18,000
Concession Building with Patio at Riverfront Park	75,000
Lighting and Electrical (Food Vendors)	30,000
Riverfront Park Ticket Booth	22,500
Storage Shelter at Riverfront Park	288,000
Walk-In Cooler at Riverfront Park	21,750
<b>Subtotal</b>	<b>455,250</b>
<b>Total</b>	<b>455,250</b>

## Project: Amphitheater roof

Department: SALES TAX - RIVERFRONT PARK

Project Years: 2022 - 2022

## Project Description

Amphitheater stage improvements and rigging system. This includes permanent and temporary roof structures but not footings

## Project Justification

The stage needs to have a proper roof that is load bearing for production, that is safe and usable per industry standards, and that keeps the stage dry during inclement weather.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2019	2020	2021	2022	2023	Total
Roof	0	0	0	320,000	0	320,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>320,000</b>	<b>0</b>	<b>320,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	0	0	0	320,000	0	320,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>320,000</b>	<b>0</b>	<b>320,000</b>

## Project Timeline

2022





**SALES TAX -**

**CIVIC  
CENTER**



## Cash Flow

	2019	2020	2021	2022	2023	Total
<b>Fund Balance</b>	\$1,200,000.00	\$602,294.00	\$171,212.00	\$119,716.00	\$512,420.00	
<b>Energy Savings - Dehumidification</b>	\$36,971.00	\$36,971.00	\$36,971.00	\$36,971.00	\$36,971.00	\$184,855
<b>MSU Lease Hold</b>	\$155,733.00	\$155,733.00	\$155,733.00	\$155,733.00	\$155,733.00	\$778,665
<b>MSU Scoreboard</b>	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$50,000
<b>Sales Tax - Civic Center Capital</b>	\$350,000.00	\$350,000.00	\$350,000.00	\$350,000.00	\$350,000.00	\$1,750,000
<b>Sales Tax - FF&amp;E</b>	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$500,000
<b>Revenue Total</b>	\$652,704.00	\$652,704.00	\$652,704.00	\$652,704.00	\$652,704.00	\$3,263,520
<b>Available Funds</b>	\$1,852,704	\$1,254,998	\$823,916	\$772,420	\$1,165,124	
<b>Project Name</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>Total</b>
<b>Roof replacement Civic Center and Banquet Hall</b>	-\$407,834.00					(\$407,834)
<b>Ticket window expansion</b>						\$0
<b>Replace walk-in refrigeration units</b>						\$0
<b>FF&amp;E</b>	-\$100,000.00	-\$100,000.00	-\$100,000.00	-\$100,000.00	-\$100,000.00	(\$500,000)
<b>Riding Scrubber Replacement</b>	-\$61,000.00					(\$61,000)
<b>Concert stage replacement</b>						\$0
<b>Arena Audio System Replacement</b>						\$0
<b>Portable radios for Civic Center staff</b>						\$0
<b>Venue refresh master plan consultation</b>	-\$15,000.00					(\$15,000)
<b>Wheelchair lift</b>		-\$9,000.00				(\$9,000)
<b>Efface repair and painting of Arena exterior</b>		-\$300,000.00				(\$300,000)
<b>Arena fourth floor club level</b>						\$0
<b>Venue refresh phase 2: carpet replacement in original convention center</b>				-\$160,000.00		(\$160,000)
<b>Grand Hall Club level drink rail</b>						\$0

	2019	2020	2021	2022	2023	Total
Venue refresh phase 3: banquet seating replacement					-\$156,000.00	(\$156,000)
Venue refresh phase 1: arena restroom remodel			-\$250,000.00			(\$250,000)
New point of sale system						\$0
Venue refresh phase 4: décor						\$0
Hockey Space Update	-\$250,000.00					(\$250,000)
Finish arena green room						\$0
CC- Lobby Roof Replacement		-\$233,932.00				(\$233,932)
Civic Center air cooling towers		-\$200,000.00				(\$200,000)
Civic Center Building exterior base limestone deterioration	-\$265,000.00					(\$265,000)
Civic Center - Ellerbe Hall roof replacement	-\$51,576.00					(\$51,576)
Civic Center trash compactor		-\$65,000.00				(\$65,000)
Verizon Civic Center - Arena concourse walkway - roof replacement		-\$175,854.00				(\$175,854)
RFP Entrance Redesign	-\$100,000.00					
Verizon Civic Center - Unit Heaters			-\$19,200.00			(\$19,200)
Verizon Civic Center - Ballroom roof replacement			-\$335,000.00			(\$335,000)
Reroute Entrance	-\$100,000.00					
<b>Total Expenditures</b>	<b>-\$1,250,410.00</b>	<b>-\$1,083,786.00</b>	<b>-\$704,200.00</b>	<b>-\$260,000.00</b>	<b>-\$256,000.00</b>	<b>\$(2,342,766.00)</b>
<b>Balance on December 31st</b>	<b>\$602,294.00</b>	<b>\$171,212.00</b>	<b>\$119,716.00</b>	<b>\$512,420.00</b>	<b>\$909,124.00</b>	

## 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
Civic Center - Ellerbe Hall Roof Replacement	2019	51,576
Civic Center Building Exterior Base Limestone Deterioration	2019	265,000
Fixtures, Furniture and Equipment	2019	100,000
Reroute Park Entrance	2019	100,000
Riding Scrubber Replacement	2019	61,000
Roof Replacement Civic Center and Banquet Hall	2019	407,834
Venue Refresh Master Plan Consultation	2019	15,000
Youth Hockey Civic Center Access and Dressing Room	2019	250,000
<b>Subtotal</b>		<b>1,250,410</b>
<b>Total</b>		<b>1,250,410</b>

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Civic Center - Arena EIFS - Painting	2020	300,000
Civic Center Air Cooling Towers	2020	200,000
Civic Center Trash Compactor	2020	65,000
Verizon Civic Center - Arena Concourse Walkway - Roof Replacement	2020	175,854
<b>Subtotal</b>		<b>740,854</b>
<b>Total</b>		<b>740,854</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Venue Refresh Phase I: Arena Restroom Remodel	2021	250,000
Verizon Civic Center - Ballroom Roof Replacement	2021	335,790
Verizon Civic Center - Unit Heaters	2021	19,200
<b>Subtotal</b>		<b>604,990</b>
<b>Total</b>		<b>604,990</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Venue Refresh Phase II: Carpet Replacement in Original Convention Center	2022	160,000
<b>Subtotal</b>		<b>160,000</b>
<b>Total</b>		<b>160,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Venue Refresh Phase III: Banquet Seating Replacement	2023	156,000
<b>Subtotal</b>		<b>156,000</b>
<b>Total</b>		<b>156,000</b>

## Illustrative CIP Fund Overview

Project Name	Project Year
Arena Audio System Replacement	375,000
Arena Fourth Floor Club Level	500,000
Concert Stage Replacement	145,000
Concessions, Ticket Booth and Hospitality FF&E	100,000
Finish Arena Green Room	50,000
Grand Hall Club Level Drink Rail	25,000
New Point of Sale System	100,000
Permanent Board Room	28,000
Portable Radios for Civic Center Staff	70,000
Replace Walk-In Refrigeration Units	50,000
Ticket Window Expansion	15,000
Venue Refresh Phase IV: Decor	200,000
Venue Refresh Phase V: Arena Concourse Floor Replacement	800,000
Walk Behind Scrubber Replacement	16,000
<b>Subtotal</b>	<b>2,474,000</b>
<b>Total</b>	<b>2,474,000</b>

## Project: Civic Center - Ellerbe Hall Roof Replacement

Department: SALES TAX - CIVIC CENTER

Project Years: 2019 - 2019

### Project Description

The Ellerbe roof was supposed to be a fully adhered roof; however, the adhesive has let loose on the east side and needs repair at the flashing due to the EPDM membrane not adhering to the roof deck.

### Project Justification

This roof was installed in 1995 and is 7 years over the life expectancy. The 3,684 square foot roof cost is figured at \$14 per square foot for a 30 year roof. Recommend replacement in 2019.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Civic Center Roof Improvement	51,576	0	0	0	0	51,576
<b>Total</b>	<b>51,576</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>51,576</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	51,576	0	0	0	0	51,576
<b>Total</b>	<b>51,576</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>51,576</b>

### Project Timeline

2nd quarter - 2019

## Project: Civic Center Building Exterior Base Limestone Deterioration

Department: SALES TAX - CIVIC CENTER

Project Years: 2019 - 2019

### Project Description

The 147 base stone surrounds the original portion of the Arena and Ballroom is failing and needs to be upgraded. The current recommendation is to replace the limestone with colored concrete panels.

### Project Justification

These limestone panels are structural support for the brick and stone above them. A failure will likely cause severe damage to the rest of the building facade.

### Project Uses

	2019	2020	2021	2022	2023	Total
Civic Center Improvements	265,000	0	0	0	0	265,000
<b>Total</b>	<b>265,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>265,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	265,000	0	0	0	0	265,000
<b>Total</b>	<b>265,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>265,000</b>

### Project Timeline

2nd quarter 2019



## Project: Fixtures, Furniture and Equipment

Department: SALES TAX - CIVIC CENTER

Project Years: 2019 - 2019

### Project Description

This is funding set aside for various furniture, fixtures and smaller projects that may arise during the year.

### Project Justification

As the original portion of the building ages, the furniture and fixtures that were purchased with the original construction continue to wear out and require replacement

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Equipment/Construction	100,000	0	0	0	0	100,000
<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Capital Replacement Fund	100,000	0	0	0	0	100,000
<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Project Timeline

Throughout the year.

## Project: Reroute Park Entrance

Department: SALES TAX - CIVIC CENTER

Project Years: 2019 - 2019

## Project Description

Reroute Park Entrance

Note: See item 7 in image below.

## Project Justification

Create a solution that allows patrons to enter the park on a trail that doesn't interfere with the backstage artist area. This will create a safer environment for the artist and for the patrons who would no longer be walking through vehicle traffic. This would improve the overall concert experience at the park. In addition, it would increase foot traffic through the plaza, increasing food and beverage sales.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2019	2020	2021	2022	2023	Total
Reroute Park Entrance	100,000	0	0	0	0	100,000
<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	100,000	0	0	0	0	100,000
<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

## Project Timeline

Project to be complete by May 1, 2019, to be ready for the park concert season.

## Project: Riding Scrubber Replacement

Department: SALES TAX - CIVIC CENTER

Project Years: 2019 - 2019

### Project Description

Tennant M20-LP cylindrical riding scrubber. This riding scrubber uses the eco20 technology to reduce water and soap waste while still providing outstanding cleaning. The Machine also comes with a side brush and heavy duty squeegee protection.

### Project Justification

The riding scrubber that this machine is replacing is twenty five years old. Replacement parts are hard if not impossible to obtain and its cleaning capacity is diminished to the point that the same area has to be cleaned multiple times or mopped by hand. This is especially significant when cleaning large spaces such as the Arena or Grand Hall between events. At times there are only a few hours available after one event ends, before another event begins. Having a fully functional riding scrubber would greatly enhance the efficiency of the housekeeping department, as it relates to the floor cleaning portion of their duties.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Equipment	61,000	0	0	0	0	61,000
<b>Total</b>	<b>61,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>61,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	61,000	0	0	0	0	61,000
<b>Total</b>	<b>61,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>61,000</b>

### Project Timeline

Equipment would be ordered January 2019

## Project: Roof Replacement Civic Center and Banquet Hall

Department: SALES TAX - CIVIC CENTER

Project Years: 2019 - 2019

### Project Description

This will be a 30 year roof replacement for all the various roof levels of the building that make up the civic center and reception hall portions of the building.

### Project Justification

The current twenty year roof is deteriorating and allowing water into the reception hall and upstairs meeting rooms of the Civic Center. It is in desperate need of replacement as we have contractors repairing it every rainfall and spring thaw.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Equipment	407,834	0	0	0	0	407,834
<b>Total</b>	<b>407,834</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>407,834</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Allocation of Fund Balance	250,000	0	0	0	0	250,000
Capital Replacement Fund	157,834	0	0	0	0	157,834
<b>Total</b>	<b>407,834</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>407,834</b>

### Project Timeline

2019

## Project: Venue Refresh Master Plan Consultation

Department: SALES TAX - CIVIC CENTER

Project Years: 2019 - 2019

### Project Description

Consultation on a "Venue Refresh" for the 1995 portions of the building. We would like to "refresh" the original portion of the building to keep it relevant. Key phases of the refresh would include cosmetic remodeling to the arena restrooms, carpet replacement in the banquet hall, reception hall, original meeting rooms and second floor hallways and corridor to the skyway, updated banquet hall seating, general decor updates and focal features, and update to the con-course flooring.

### Project Justification

To remain relevant and ensure that our building is an inviting space, where people want to spend their time, it is necessary to ensure that the building is not only structurally sound but also a visually appealing place to be. In order to stay on pace with modern design and patron expectations updates are necessary. A consultant specializing in these types of updates will be guiding this refresh to ensure that the most effective updates are made.

### Engagement Strategy

- ◆ Community Investment Plan open house (future opportunities--detailed on overall Community Investment Plan communications and engagement action plan)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Direct mail to area residents living near project
- ◆ Focus groups
- ◆ Pop-up events
- ◆ Informational materials (print and electronic)
- ◆ Online newsletter
- ◆ News release and email notification asking for input
- ◆ Utility insert
- ◆ Online engagement tools
- ◆ Surveys (online)
- ◆ Online city calendar
- ◆ Social media
- ◆ Video
- ◆ Other

## Project Uses

	2019	2020	2021	2022	2023	Total
Venue Refresh Master Plan	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Civic Center Capital	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

## Project Timeline

Consultation and project specifications completed in 2019. Five phases are anticipated to be completed 2020-2024

## Project: Youth Hockey Civic Center Access and Dressing Room

Department: SALES TAX - CIVIC CENTER

Project Years: 2019 - 2019

### Project Description

Develop a safe and convenient way for the youth hockey players to enter the arena and have access to a dressing room.

### Project Justification

Better access to the arena and dressing room areas.

### Engagement Strategy

- ◆ Community Investment Plan open house (future opportunities--detailed on overall Community Investment Plan communications and engagement action plan)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Direct mail to area residents living near project
- ◆ Focus groups
- ◆ Pop-up events
- ◆ Informational materials (print and electronic)
- ◆ Online newsletter
- ◆ News release and email notification asking for input
- ◆ Utility insert
- ◆ Online engagement tools
- ◆ Surveys (online)
- ◆ Online city calendar
- ◆ Social media
- ◆ Video
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Civic Center Improvements	250,000	0	0	0	0	250,000
<b>Total</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	250,000	0	0	0	0	250,000
<b>Total</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

## Project Timeline

2nd quarter - 2020



## Project: Civic Center - Arena EIFS - Painting

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

Paint the EIFS of the upper portion of the Main Arena.

### Project Justification

This needs to be done before the arena lobby roof is replaced. The color of EIFS is faded and becoming weather checked and needs caulking.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Arena improvements	0	300,000	0	0	0	300,000
<b>Total</b>	<b>0</b>	<b>300,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	0	300,000	0	0	0	300,000
<b>Total</b>	<b>0</b>	<b>300,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300,000</b>

### Project Timeline

2nd quarter - 2019

## Project: Civic Center Air Cooling Towers

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

Replacement of the existing air cooling towers for the existing 400 ton chilled water compressors.

### Project Justification

These units were installed in 1995 and are 3 years over their life expectancy. There are numerous signs of pending failure, pipe fittings leaking, housing connections leaking, regular non routine bearing and belt noises, drive pulley alignment issues. There two separate units and it may be possible to replace these over a two year period after the new 100 ton unit is installed in fall of 2018 as part of the Ameresco upgrades.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	0	194,500	0	0	0	194,500
Engineering	0	3,500	0	0	0	3,500
Project Management	0	2,000	0	0	0	2,000
<b>Total</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	0	200,000	0	0	0	200,000
<b>Total</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>

### Project Timeline

Work would be best complete in the fall when the main chillers are shut down.

## Project: Civic Center Trash Compactor

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

Replacement of the Civic Center Trash Compactor.

### Project Justification

This compactor was installed in 1996 when the Civic Center was built. It has seen several structural and mechanical repairs in the past 5 years, the main structure unit continues to deteriorate and the mechanical equipment and controls have exceeded their life expectancy.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Project Execution	0	65,000	0	0	0	65,000
<b>Total</b>	<b>0</b>	<b>65,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	0	65,000	0	0	0	65,000
<b>Total</b>	<b>0</b>	<b>65,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65,000</b>

### Project Timeline

The unit can be ordered in January and installed during the Civic Center summer months when most of the larger events are the Riverfront Park.

## Project: Verizon Civic Center - Arena Concourse Walkway - Roof Replacement

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

The arena concourse roofs have been relatively problem free, there has been only two or three repairs in the past five years and nothing in the past two years.

### Project Justification

These roofs were installed in 1995 and are 7 years over their life expectancy. The 12,561 square foot roof cost if figured at \$14 per square foot for a 20 year roof. Recommend evaluation in 2019 and if necessary replace in 2020.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Civic Center Improvements	0	175,854	0	0	0	175,854
<b>Total</b>	<b>0</b>	<b>175,854</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175,854</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	0	175,854	0	0	0	175,854
<b>Total</b>	<b>0</b>	<b>175,854</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175,854</b>

### Project Timeline

2nd quarter - 2020

## Project: Venue Refresh Phase I: Arena Restroom Remodel

Department: SALES TAX - CIVIC CENTER

Project Years: 2021 - 2021

### Project Description

A venue refresh is necessary to stay relevant in the industry. The first phase is to update the restrooms throughout the arena.

### Project Justification

In order to maintain the building and ensure that we have a building that is aesthetically pleasing to clients and guests, the bathrooms must be updated periodically. The restrooms in the the arena have not been updated since the arena was built in 1995.

### Engagement Strategy

- ◆ Community Investment Plan open house (future opportunities--detailed on overall Community Investment Plan communications and engagement action plan)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Direct mail to area residents living near project
- ◆ Focus groups
- ◆ Pop-up events
- ◆ Informational materials (print and electronic)
- ◆ Online newsletter
- ◆ News release and email notification asking for input
- ◆ Utility insert
- ◆ Online engagement tools
- ◆ Surveys (online)
- ◆ Online city calendar
- ◆ Social media
- ◆ Video
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Arena Restroom Remodel	0	0	250,000	0	0	250,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Civic Center Capital	0	0	250,000	0	0	250,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

## Project Timeline

Project complete by September 2021, prior to the start of the 2021-22 hockey season

## Project: Verizon Civic Center - Ballroom Roof Replacement

Department: SALES TAX - CIVIC CENTER

Project Years: 2021 - 2021

### Project Description

The Ballroom roof has had very little trouble, no leaks have been reported in the past few years; however, the membrane is showing signs of stress around the inside corners and flashing connections.

### Project Justification

The roof was installed in 1995 and is 7 years over the life expectancy. The 23,985 square foot roof cost is figured at \$14 per square foot for a 30 year roof. Recommend evaluation in 2020 and replacement in 2021.

### Project Uses

	2019	2020	2021	2022	2023	Total
Civic Center Improvements	0	0	335,790	0	0	335,790
<b>Total</b>	<b>0</b>	<b>0</b>	<b>335,790</b>	<b>0</b>	<b>0</b>	<b>335,790</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	0	0	335,790	0	0	335,790
<b>Total</b>	<b>0</b>	<b>0</b>	<b>335,790</b>	<b>0</b>	<b>0</b>	<b>335,790</b>

### Project Timeline

2nd quarter - 2021

## Project: Verizon Civic Center - Unit Heaters

Department: SALES TAX - CIVIC CENTER

Project Years: 2021 - 2021

### Project Description

There are 24 unit heaters that have small leaks and need replacement.

### Project Justification

Unit heaters will eventually fail.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Civic Center Improvements	0	0	19,200	0	0	19,200
<b>Total</b>	<b>0</b>	<b>0</b>	<b>19,200</b>	<b>0</b>	<b>0</b>	<b>19,200</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	0	0	19,200	0	0	19,200
<b>Total</b>	<b>0</b>	<b>0</b>	<b>19,200</b>	<b>0</b>	<b>0</b>	<b>19,200</b>

### Project Timeline

2nd quarter - 2021



## Project: Venue Refresh Phase II: Carpet Replacement in Original Convention Center

Department: SALES TAX - CIVIC CENTER

Project Years: 2022 - 2022

### Project Description

A venue refresh is necessary to stay relevant. The second phase is to replace the carpet in all meeting rooms on the first and second floors of the original building. In addition the carpet in the 2nd floor hallway and corridor from the meeting rooms to the skyway would be replaced. A carpet will be selected that is cohesive with the carpet installed in the Grand Hall in 2016.

### Project Justification

In order to maintain the building and ensure that we have a venue that is aesthetically pleasing to potential clients, the carpet must be replaced periodically.

### Project Uses

	2019	2020	2021	2022	2023	Total
Carpet	0	0	0	160,000	0	160,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>160,000</b>	<b>0</b>	<b>160,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	0	0	0	160,000	0	160,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>160,000</b>	<b>0</b>	<b>160,000</b>

### Project Timeline

This will take place between the months of May and September 2022.

## Project: Venue Refresh Phase III: Banquet Seating Replacement

Department: SALES TAX - CIVIC CENTER

Project Years: 2023 - 2023

### Project Description

1000 square, flex back chairs with powder coated frames and a mid grade fabric covering.

### Project Justification

Current banquet chair inventory is still original to the building. They are becoming thread bare and are in constant need of maintenance to repair broken welds. In addition, the color no longer matches upgrades to the banquet facilities that have been made over the last 23 years.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Equipment	0	0	0	0	156,000	156,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>156,000</b>	<b>156,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	0	0	0	0	156,000	156,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>156,000</b>	<b>156,000</b>

### Project Timeline

Purchased during 2023.



## **SALES TAX - AIRPORT**



## Cash Flow

	2019	2020	2021	2022	2023	Total
<b>Fund Balance</b>	\$750,000.00	\$153,150.00	\$21,400.00	\$12,500.00	\$31,500.00	
<b>Sales Tax - Airport</b>	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	
<b>Available Funds</b>	\$850,000.00	\$253,150.00	\$121,400.00	\$112,500.00	\$131,500.00	
Project Name	2019	2020	2021	2022	2023	Total
Benefit-Cost Analysis for Control Tower		-\$26,750.00				-\$26,750.00
Rehabilitate Taxiways D, E				-\$20,000.00		-\$20,000.00
Expand runway 15/33 holding bays		-\$12,500.00				-\$12,500.00
Rehabilitate Taxiway A & B remainders		-\$22,500.00				-\$22,500.00
Acquire ARFF vehicle/equipment				-\$40,000.00		-\$40,000.00
Construct wildlife/security fencing & perimeter road					-\$75,000.00	-\$75,000.00
Install runway 15 approach lighting system						\$0.00
Update Airport master plan/ALP					-\$7,500.00	-\$7,500.00
Design T-hangar					-\$22,500.00	-\$22,500.00
Repair existing T-hangars						\$0.00
Construct T-hangar						\$0.00
Relocate airport beacon		-\$1,750.00				-\$1,750.00
Remodel Airport Terminal Building	-\$200,000.00					-\$200,000.00
Environmental study for Taxiway, Apron, and Fuel Farm projects	-\$5,000.00					-\$5,000.00
Taxiway and Apron improvements preliminary design	-\$4,250.00					-\$4,250.00
Taxiway and Apron improvements final design		-\$8,250.00				-\$8,250.00
Construct Apron connector taxiway		-\$10,000.00				-\$10,000.00
Rehabilitate Taxiway C		-\$5,000.00				-\$5,000.00
Construct fueling apron	-\$120,000.00					-\$120,000.00
Expand general aviation apron		-\$55,000.00				-\$55,000.00

	2019	2020	2021	2022	2023	Total
Acquire mower attachment		-\$16,500.00				-\$16,500.00
Acquire snowblower			-\$39,900.00			-\$39,900.00
Acquire airport maintenance vehicle with plow				-\$21,000.00		-\$21,000.00
Mankato Regional - MALSR approach	-\$60,000.00					-\$60,000.00
Mankato Regional Airport - Runway 15/33 concrete repair	-\$5,000.00					-\$5,000.00
Mankato Regional Airport - SRE building addition	-\$40,000.00					-\$40,000.00
Mankato Regional Airport - Wildlife Perimeter fencing	-\$19,100.00					-\$19,100.00
Mankato Regional Airport - Airport maintenance vehicle		-\$21,000.00				-\$21,000.00
Mankato Regional Airport - Runway 15 Safety Area		-\$25,000.00				-\$25,000.00
Mankato Regional Airport - Taxiway B2 connector		-\$27,500.00				-\$27,500.00
Mankato Regional Airport - Fuel Farm replacement			-\$69,000.00			-\$69,000.00
Mankato Regional Airport Part 139 Certification	-\$222,500.00					-\$222,500.00
Acquire Airport maintenance mower	-\$21,000.00					-\$21,000.00
<b>Total</b>	<b>-\$696,850.00</b>	<b>-\$231,750.00</b>	<b>-\$108,900.00</b>	<b>-\$81,000.00</b>	<b>-\$105,000.00</b>	<b>-\$1,223,500.00</b>
<b>Fund Balance</b>	<b>\$153,150.00</b>	<b>\$21,400.00</b>	<b>\$12,500.00</b>	<b>\$31,500.00</b>	<b>\$26,500.00</b>	<b>\$245,050.00</b>

## 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
Acquire Airport Maintenance Mower	2019	70,000
Construct Fueling Apron	2019	400,000
Environmental Study for Taxiway, Apron, and Fuel Farm projects	2019	100,000
Mankato Regional - MALSR Approach	2019	300,000
Mankato Regional Airport - Runway 15/33 Concrete Repair	2019	50,000
Mankato Regional Airport - SRE Building Addition	2019	800,000
Mankato Regional Airport - Wildlife Perimeter Fencing	2019	382,000
Mankato Regional Airport Part 139 Certification	2019	241,250
Remodel Airport Terminal Building	2019	400,000
Taxiway and Apron Improvements Preliminary Design	2019	85,000
<b>Subtotal</b>		<b>2,828,250</b>
<b>Total</b>		<b>2,828,250</b>

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Acquire mower attachment	2020	55,000
Benefit-Cost Analysis for Control Tower	2020	145,000
Construct Apron Connector Taxiway	2020	200,000
Expand General Aviation Apron	2020	1,100,000
Expand Runway 15/33 Holding Bays	2020	250,000
Mankato Regional Airport - Airport Maintenance Vehicle	2020	70,000
Mankato Regional Airport - Runway 15 Safety Area	2020	500,000
Mankato Regional Airport - Taxiway B2 Connector	2020	550,000
Rehabilitate Taxiway A & B Remainders	2020	450,000
Rehabilitate Taxiway C	2020	100,000
Relocate Airport Beacon	2020	35,000
Taxiway and Apron Improvements Final Design	2020	165,000
<b>Subtotal</b>		<b>3,620,000</b>
<b>Total</b>		<b>3,620,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Acquire Snowblower	2021	133,000
Mankato Regional Airport - Fuel Farm Replacement	2021	230,000
<b>Subtotal</b>		<b>363,000</b>
<b>Total</b>		<b>363,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Acquire Airport Maintenance Vehicle with Plow	2022	70,000
Acquire ARFF Vehicle/Equipment	2022	800,000
ARFF - SRE Building Construction	2022	2,000,000
Rehabilitate Taxiways D, E	2022	400,000
<b>Subtotal</b>		<b>3,270,000</b>
<b>Total</b>		<b>3,270,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Construct Wildlife/Security Fencing & Perimeter Road	2023	1,500,000
Design T-Hangar	2023	75,000
Update Airport Master Plan / ALP	2023	150,000
<b>Subtotal</b>		<b>1,725,000</b>
<b>Total</b>		<b>1,725,000</b>

## Illustrative CIP Fund Overview

Project Name	Project Year
Construct T-Hangar	600,000
Install Runway 15 Approach Lighting System	400,000
Repair Existing T-Hangars	270,000
<b>Subtotal</b>	<b>1,270,000</b>
<b>Total</b>	<b>1,270,000</b>



## Project: Acquire Airport Maintenance Mower

Department: SALES TAX - AIRPORT

Project Years: 2019 - 2019

### Project Description

Replace existing trim mower with like unit.

### Project Justification

Existing trim mower is subject to frequent breakdowns and the high maintenance costs necessitate replacement.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Acquire Airport Maintenance Mower	70,000	0	0	0	0	70,000
<b>Total</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	21,000	0	0	0	0	21,000
MnDOT	49,000	0	0	0	0	49,000
<b>Total</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>

### Project Timeline

1st quarter 2019 - Purchase equipment

## Project: Construct Fueling Apron

Department: SALES TAX - AIRPORT

Project Years: 2019 - 2019

## Project Description

Construct new fueling apron

## Project Justification

Construct new fueling apron in preparation for replacement of fuel farm in 2020.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2019	2020	2021	2022	2023	Total
Construct Fuel Apron	400,000	0	0	0	0	400,000
<b>Total</b>	<b>400,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>400,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	120,000	0	0	0	0	120,000
MnDOT	280,000	0	0	0	0	280,000
<b>Total</b>	<b>400,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>400,000</b>

## Project Timeline

2019 - Fuel Farm Preliminary Design

2019 - Apron Construction

Winter 2019 - 2020 - Fuel Farm Final Design

Summer 2020 - Fuel Farm Construction

## Project: Environmental Study for Taxiway, Apron, and Fuel

### Farm projects

Department: SALES TAX - AIRPORT

Project Years: 2019 - 2019

### Project Description

An environmental study will be conducted for the upcoming airport projects.

### Project Justification

Environmental study needs to be done in preparation of multiple projects in the coming years including taxiway modifications, apron expansions, and a new fuel farm.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Conduct Environmental Study	100,000	0	0	0	0	100,000
<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	5,000	0	0	0	0	5,000
FAA	90,000	0	0	0	0	90,000
MnDOT	5,000	0	0	0	0	5,000
<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Project Timeline

2019 - Conduct Environmental Study

## Project: Mankato Regional - MALSR Approach

Department: SALES TAX - AIRPORT

Project Years: 2019 - 2019

### Project Description

MALSR - Approach Lighting System (ALS): This project would install a medium intensity approach lighting system (MALSR) to Runway 15. The approach lighting system allows pilots to locate the runway in poor or instrument weather conditions.

### Project Justification

MALSR - Approach Lighting System (ALS): This project would install a medium intensity approach lighting system (MALSR) to Runway 15. The approach lighting system allows pilots to locate the runway in poor or instrument weather conditions.

### Engagement Strategy

***Community projects, including sales tax items (inform only)***

- ◆ Direct mail to area residents living near project; include invite to Community Investment Plan open house
- ◆ Upcoming events, i.e, Night to Unite
- ◆ Community Investment Plan open house
- ◆ Informational materials (print and electronic)
- ◆ News release (combined with other appropriate Community Investment Plan items so it's cohesive)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Online city calendar
- ◆ Social media
- ◆ Online engagement tools
- ◆ Other

***City items, including sales tax items (typically always inform)***

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

## Project Uses

	2019	2020	2021	2022	2023	Total
Approach Lighting System	300,000	0	0	0	0	300,000
<b>Total</b>	<b>300,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	60,000	0	0	0	0	60,000
MnDOT	240,000	0	0	0	0	240,000
<b>Total</b>	<b>300,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300,000</b>

## Project Timeline

Fall 2018 - Potential grant award from MNDOT. Spring 2019 - Design project and request bids.  
Summer 2019 - Approach Lighting construction.

## Project: Mankato Regional Airport - Runway 15/33 Concrete Repair

Department: SALES TAX - AIRPORT

Project Years: 2019 - 2019

### Project Description

Runway 15/33 Concrete Repair: Runway 15/33 has experienced cracking in concrete panels not along control joints. This runway is the primary instrument and large aircraft runway. The project will route, fill and seal concrete cracking, along with grooving Runway 04/22.

### Project Justification

Concrete crack repair will extend the pavement life of this \$15 million asset by preventing water intrusion. This will result in long term pavement preservation of the primary runway. Project is dependent on grants from the FAA and/or MnDOT.

### Project Uses

	2019	2020	2021	2022	2023	Total
Concrete Crack Repair	50,000	0	0	0	0	50,000
<b>Total</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	5,000	0	0	0	0	5,000
FAA	45,000	0	0	0	0	45,000
<b>Total</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Project Timeline

Spring 2018 - Potential grant award from FAA. Summer 2018 - Crack repair and runway grooving.

## Project: Mankato Regional Airport - SRE Building Addition

Department: SALES TAX - AIRPORT

Project Years: 2019 - 2019

### Project Description

Snow Removal Equipment (SRE) Building Addition: Construct a four bay addition for Snow Removal Equipment to the current Airport Maintenance Shop / Fire Station. Addition will consist of drive through bay access along with a light equipment maintenance and material storage area. Remodel existing Fire Station bay to allow for current generation fire truck.

### Project Justification

Current building has a total of four equipment bays. The airport operates and stores seven pieces of heavy equipment to include snow plows, snow blowers, mowing tractors and a fire truck, along with several smaller mowers, bobcats and gator. Currently equipment that will not fit in the four bays is 12 mile away in hangars. The addition will centralize all airport maintenance activities in one location resulting in increased efficiency, more leasable hangar space and better environmental protection for over \$600,000 in equipment assets.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
SRE Building Addition	800,000	0	0	0	0	800,000
<b>Total</b>	<b>800,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>800,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	40,000	0	0	0	0	40,000
FAA	720,000	0	0	0	0	720,000
MnDOT	40,000	0	0	0	0	40,000
<b>Total</b>	<b>800,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>800,000</b>

## Project Timeline

Fall 2018 - Potential grant award from FAA. Spring 2019 - Design project and request bids. Summer 2019 - SRE building addition construction.



## Project: Mankato Regional Airport - Wildlife Perimeter Fencing

Department: SALES TAX - AIRPORT

Project Years: 2019 - 2019

### Project Description

Wildlife Perimeter Fencing: Install a 10' Wildlife Perimeter fence in selected portions of the airport boundary.

### Project Justification

The current perimeter fence is designed to secure airport boundary, but does not prevent all wildlife from entering the airport, especially deer. Due to the location of the airport, near lakes and wooded areas, the USDA has identified deer on the runways as a significant hazard to aircraft at Mankato. The wildlife fence would help to mitigate wildlife / aircraft collisions. Project is dependent on grants from the FAA and/or MnDOT.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Wildlife Fence	382,000	0	0	0	0	382,000
<b>Total</b>	<b>382,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>382,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	19,100	0	0	0	0	19,100
FAA	343,800	0	0	0	0	343,800
MnDOT	19,100	0	0	0	0	19,100
<b>Total</b>	<b>382,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>382,000</b>

### Project Timeline

Fall 2018 - Potential grant award from FAA. Spring 2019 - Design project and request bids. Summer 2019 - Wildlife Fence construction.

## Project: Mankato Regional Airport Part 139 Certification

Department: SALES TAX - AIRPORT

Project Years: 2019 - 2019

### Project Description

Purchase equipment and train personnel pursuant to Part 139.315b1 under Index A enabling the Mankato Regional Airport to accommodate and service corporate aircraft under 90-feet with less than 31 passengers. Total cost is \$613,600 with annual estimated operating costs of \$87,000, which includes depreciation value of equipment.

### Project Justification

Personnel from Public Works and Public Safety worked together to determine the costs of training and equipment to comply with Part 139.315b1 under Index A. Having the appropriate equipment and personnel trained to react to emergencies out at the airport is important not only for the ability to accommodate corporate aircraft, it is also important to the current primary use of the airport, which is aviation training. Funding is dependent on grants from the FAA and/or MnDOT.

### Engagement Strategy

#### ***Community projects, including sales tax items***

- ◆ Community Investment Plan open house (future opportunities--detailed on overall Community Investment Plan communications and engagement action plan)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Direct mail to area residents living near project
- ◆ Focus groups
- ◆ Pop-up events
- ◆ Informational materials (print and electronic)
- ◆ Online newsletter
- ◆ News release and email notification asking for input
- ◆ Utility insert
- ◆ Online engagement tools
- ◆ Surveys (online)
- ◆ Online city calendar
- ◆ Social media
- ◆ Video
- ◆ Other

#### ***City projects, including sales tax items***

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2019	2020	2021	2022	2023	Total
GSE	222,500	0	0	0	0	222,500
Training	18,750	0	0	0	0	18,750
<b>Total</b>	<b>241,250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>241,250</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	222,500	0	0	0	0	222,500
General Fund	18,750	0	0	0	0	18,750
<b>Total</b>	<b>241,250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>241,250</b>

## Project Timeline

N/A

## Project: Remodel Airport Terminal Building

Department: SALES TAX - AIRPORT

Project Years: 2019 - 2019

### Project Description

Interior remodel of terminal building for better tenant utilization and optimization of leased space.

### Project Justification

Current tenants are experiencing growth and are in need of additional space. Local funding will be amortized over 10 years from tenant leases.

### Engagement Strategy

Stakeholders meetings with tenants are ongoing to define project scope and develop a needs assessment.

#### ***Community projects, including sales tax items (inform only)***

- ◆ Direct mail to area residents living near project; include invite to Community Investment Plan open house
- ◆ Upcoming events, i.e, Night to Unite
- ◆ Community Investment Plan open house
- ◆ Informational materials (print and electronic)
- ◆ News release (combined with other appropriate Community Investment Plan items so it's cohesive)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Online city calendar
- ◆ Social media
- ◆ Online engagement tools
- ◆ Other

#### ***City items, including sales tax items (typically always inform)***

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

## Project Uses

	2019	2020	2021	2022	2023	Total
Remodel Terminal Building	400,000	0	0	0	0	400,000
<b>Total</b>	<b>400,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>400,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	200,000	0	0	0	0	200,000
MnDOT	200,000	0	0	0	0	200,000
<b>Total</b>	<b>400,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>400,000</b>

## Project Timeline

2019 - Design and construction of interior remodel

## Project: Taxiway and Apron Improvements Preliminary Design

Department: SALES TAX - AIRPORT

Project Years: 2019 - 2019

### Project Description

Preliminary Design for Taxiway B2, Apron Connector Taxiway, and Fuel Apron projects.

### Project Justification

The taxiway, apron, and fuel apron projects are being combined to better compete for FAA discretionary funding.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Preliminary Design	85,000	0	0	0	0	85,000
<b>Total</b>	<b>85,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>85,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	4,250	0	0	0	0	4,250
FAA	76,500	0	0	0	0	76,500
MnDOT	4,250	0	0	0	0	4,250
<b>Total</b>	<b>85,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>85,000</b>

### Project Timeline

2019 - Preliminary Design

Winter 2019 - 2020 - Final Design

Summer 2020 - Construction

## Project: Acquire mower attachment

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

## Project Description

Acquire a flail mower attachment for existing tractor.

## Project Justification

Flail mower attachment will be used to mow hard to reach areas.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2019	2020	2021	2022	2023	Total
Acquire Flail Mower Attachment	0	55,000	0	0	0	55,000
<b>Total</b>	<b>0</b>	<b>55,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>55,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	16,500	0	0	0	16,500
MnDOT	0	38,500	0	0	0	38,500
<b>Total</b>	<b>0</b>	<b>55,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>55,000</b>

## Project Timeline

2020 - Purchase equipment

## Project: Benefit-Cost Analysis for Control Tower

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

### Project Description

Control Tower - Benefit-Cost Analysis for Control Tower

### Project Justification

Cost analysis to determine eligibility for FAA control tower to accommodate increased air traffic at the airport.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Control Tower	0	145,000	0	0	0	145,000
<b>Total</b>	<b>0</b>	<b>145,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>145,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	22,500	0	0	0	22,500
MnDOT	0	122,500	0	0	0	122,500
<b>Total</b>	<b>0</b>	<b>145,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>145,000</b>

### Project Timeline

2020



## Project: Construct Apron Connector Taxiway

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

### Project Description

Construct Apron Connector Taxiway from B to the MSU apron.

### Project Justification

Required for two-way entrance/exit capacity from MSU Aviation growth and loss of Taxiway C in 2020.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Construct Apron Connector Taxiway	0	200,000	0	0	0	200,000
<b>Total</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	10,000	0	0	0	10,000
FAA	0	180,000	0	0	0	180,000
MnDOT	0	10,000	0	0	0	10,000
<b>Total</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>

### Project Timeline

2019 - Preliminary Design

Winter 2019 - 2020 - Final Design

Summer 2020 - Construction

## Project: Expand General Aviation Apron

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

### Project Description

Expand MSU aviation apron and restripe the main apron.

### Project Justification

Expansion of the Minnesota State University aviation apron to accommodate program growth and replace lost aircraft parking spaces on the main apron due to the runway visibility zone issue.

### Engagement Strategy

#### ***Community projects, including sales tax items***

- ◆ Community Investment Plan open house (future opportunities--detailed on overall Community Investment Plan communications and engagement action plan)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Direct mail to area residents living near project
- ◆ Focus groups
- ◆ Pop-up events
- ◆ Informational materials (print and electronic)
- ◆ Online newsletter
- ◆ News release and email notification asking for input
- ◆ Utility insert
- ◆ Online engagement tools
- ◆ Surveys (online)
- ◆ Online city calendar
- ◆ Social media
- ◆ Video
- ◆ Other

#### ***City projects, including sales tax items***

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2019	2020	2021	2022	2023	Total
Expand general aviation apron	0	1,100,000	0	0	0	1,100,000
<b>Total</b>	<b>0</b>	<b>1,100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,100,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	55,000	0	0	0	55,000
FAA	0	990,000	0	0	0	990,000
MnDOT	0	55,000	0	0	0	55,000
<b>Total</b>	<b>0</b>	<b>1,100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,100,000</b>

## Project Timeline

2020 - Construction

## Project: Expand Runway 15/33 Holding Bays

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

### Project Description

Taxiway Maintenance - Expand Runway 15/33 Holding Bays

### Project Justification

Expand holding bays at the end of runways to accommodate MSU aviation growth and removal of 'holding bay' at Taxiway C.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Expand Runway 15/33 Holding Bays	0	250,000	0	0	0	250,000
<b>Total</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	12,500	0	0	0	12,500
FAA	0	225,000	0	0	0	225,000
MnDOT	0	12,500	0	0	0	12,500
<b>Total</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

### Project Timeline

2020

## Project: Mankato Regional Airport - Airport Maintenance Vehicle

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

### Project Description

Purchase replacement airport maintenance vehicle (Medium Duty Pickup with Plow).

### Project Justification

The current airport maintenance truck will reach the end of its useful life in 2020. This vehicle is used for daily airport field inspections, building maintenance and airport street snow plowing in the winter. Current vehicle was purchased new in 2007 and will have approximately 90,000 miles on it in 2020. Project is dependent on grants from the FAA and/or MnDOT.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Maintenance Vehicle	0	70,000	0	0	0	70,000
<b>Total</b>	<b>0</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	21,000	0	0	0	21,000
MnDOT	0	49,000	0	0	0	49,000
<b>Total</b>	<b>0</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>

### Project Timeline

Fall 2019 - Potential grant award from MNDOT. Spring 2020 - Request bids and purchase vehicle.

## Project: Mankato Regional Airport - Runway 15 Safety Area

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

### Project Description

Runway 15 Safety Area: Construct a safety area / underrun at the approach end of Runway 15.

### Project Justification

The runway safety area allows aircraft that misjudge their approach to safely stop the aircraft. This safety area / underrun would consist 500 feet of pavement for emergency use only. The pavement could also be used for special events such as the Mankato Airshow for military aircraft that require longer runway lengths for safety. Project is dependent on grants from the FAA and/or MnDOT.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Runway Safety Area	0	500,000	0	0	0	500,000
<b>Total</b>	<b>0</b>	<b>500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	25,000	0	0	0	25,000
FAA	0	450,000	0	0	0	450,000
MnDOT	0	25,000	0	0	0	25,000
<b>Total</b>	<b>0</b>	<b>500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500,000</b>

### Project Timeline

Fall 2019 - Potential grant award from FAA. Spring 2020 - Design project and request bids. Summer 2020 - Safety Area construction.

## Project: Mankato Regional Airport - Taxiway B2 Connector

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

### Project Description

Taxiway B2 Connector: Construct a new taxiway entrance to Runway 04/22.

### Project Justification

Taxiway B2 Connector: This taxiway would allow aircraft to more efficiently enter and exit the runway, thereby increasing the capacity of the existing runway, especially for MSU aircraft.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Taxiway B2 Connector	0	550,000	0	0	0	550,000
<b>Total</b>	<b>0</b>	<b>550,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>550,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	27,500	0	0	0	27,500
FAA	0	495,000	0	0	0	495,000
MnDOT	0	27,500	0	0	0	27,500
<b>Total</b>	<b>0</b>	<b>550,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>550,000</b>

### Project Timeline

Fall 2019 - Potential grant award from FAA. Spring 2020 - Design project and request bids. Summer 2020 - Taxiway B2 construction.

## Project: Rehabilitate Taxiway A & B Remainders

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

### Project Description

Rehabilitate Taxiway A & B Remainders (Mill & Overlay). Mill and overlay pavement on Taxiways A and B.

### Project Justification

Taxiway Maintenance - Pavement condition is deteriorating and subject to water intrusion.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Rehabilitate Taxiway A & B	0	450,000	0	0	0	450,000
<b>Total</b>	<b>0</b>	<b>450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>450,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	22,500	0	0	0	22,500
FAA	0	405,000	0	0	0	405,000
MnDOT	0	22,500	0	0	0	22,500
<b>Total</b>	<b>0</b>	<b>450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>450,000</b>

### Project Timeline

2020



## Project: Rehabilitate Taxiway C

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

### Project Description

Removal of existing Taxiway C

### Project Justification

Removal of existing Taxiway C is required by the FAA due to non-standard design which contributes to runway incursions.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Rehabilitate Taxiway C	0	100,000	0	0	0	100,000
<b>Total</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	5,000	0	0	0	5,000
FAA	0	90,000	0	0	0	90,000
MnDOT	0	5,000	0	0	0	5,000
<b>Total</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Project Timeline

2019 - Preliminary Design

Winter 2019 - 2020 - Final Design

Summer 2020 - Construction

## Project: Relocate Airport Beacon

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

## Project Description

Relocation of the existing 1970 airport beacon.

## Project Justification

Beacon relocation is necessary for the construction of the Airport Rescue Fire Fighting and Snow Removal Equipment building.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2019	2020	2021	2022	2023	Total
Relocate Airport Beacon	0	35,000	0	0	0	35,000
<b>Total</b>	<b>0</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	1,750	0	0	0	1,750
FAA	0	31,500	0	0	0	31,500
MnDOT	0	1,750	0	0	0	1,750
<b>Total</b>	<b>0</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

## Project Timeline

2020 - Beacon relocation

## Project: Taxiway and Apron Improvements Final Design

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

### Project Description

Final Design for Taxiway B2, Apron Connector Taxiway, and Fuel Apron projects.

### Project Justification

The taxiway, apron, and fuel apron projects are being combined to better compete for FAA discretionary funding.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Final Design	0	165,000	0	0	0	165,000
<b>Total</b>	<b>0</b>	<b>165,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>165,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	8,250	0	0	0	8,250
FAA	0	148,500	0	0	0	148,500
MnDOT	0	8,250	0	0	0	8,250
<b>Total</b>	<b>0</b>	<b>165,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>165,000</b>

### Project Timeline

2019 - Preliminary Design

Winter 2019 - 2020 - Final Design

Summer 2020 - Construction

## Project: Acquire Snowblower

Department: SALES TAX - AIRPORT

Project Years: 2021 - 2021

## Project Description

Acquire a Large Snowblower.

## Project Justification

Acquire a Large Runway/Taxiway/Apron Snowblower to supplement 1990's vintage Oshkosh snowblower.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2019	2020	2021	2022	2023	Total
Acquire snowblower	0	0	133,000	0	0	133,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>133,000</b>	<b>0</b>	<b>0</b>	<b>133,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	0	39,900	0	0	39,900
MnDOT	0	0	93,100	0	0	93,100
<b>Total</b>	<b>0</b>	<b>0</b>	<b>133,000</b>	<b>0</b>	<b>0</b>	<b>133,000</b>

## Project Timeline

2021 - Purchase equipment

## Project: Mankato Regional Airport - Fuel Farm Replacement

Department: SALES TAX - AIRPORT

Project Years: 2021 - 2021

### Project Description

Fuel Farm - Replace underground storage tanks: This project will replace the existing underground Jet Fuel and Aviation Fuel storage tanks with new above ground tanks. The location of the Fuel Farm would be relocated away from the main aircraft parking area for safety and to allow the MSU aviation aircraft parking area to expand.

### Project Justification

The currently fuel tanks were installed in 1992 and have a 30 year replacement date (the tanks are monitored for leakage and are not leaking, but still must be replaced). The airport uses over 500,000 gallons of fuel per year to service aircraft and without fuel these aircraft would not be allowed to fly from Mankato, decreasing airport operations and revenue. Project is dependent on grants from the FAA and/or MnDOT.

### Project Uses

	2019	2020	2021	2022	2023	Total
Fuel Farm Replacement	0	0	230,000	0	0	230,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>230,000</b>	<b>0</b>	<b>0</b>	<b>230,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	0	69,000	0	0	69,000
MnDOT	0	0	161,000	0	0	161,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>230,000</b>	<b>0</b>	<b>0</b>	<b>230,000</b>

### Project Timeline

Fall 2020 - Potential grant award from MNDOT. Spring 2021 - Design project and request bids.  
Summer 2021 - Replacement fuel farm construction.

## Project: Acquire Airport Maintenance Vehicle with Plow

Department: SALES TAX - AIRPORT

Project Years: 2022 - 2022

### Project Description

Replace existing airport maintenance pickup and plow.

### Project Justification

Equipment has reached the end of its useful life and requiring expensive maintenance.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Purchase Maintenance Pickup	0	0	0	70,000	0	70,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>	<b>0</b>	<b>70,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	0	0	21,000	0	21,000
MnDOT	0	0	0	49,000	0	49,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>	<b>0</b>	<b>70,000</b>

### Project Timeline

2022 - Purchase equipment

## Project: Acquire ARFF Vehicle/Equipment

Department: SALES TAX - AIRPORT

Project Years: 2022 - 2022

### Project Description

Equipment Purchase - Acquire ARFF Vehicle/Equipment

### Project Justification

Purchase Index A ARFF vehicle for Part 139 Certification

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
ARFF Vehicle Equipment	0	0	0	800,000	0	800,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>800,000</b>	<b>0</b>	<b>800,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	0	0	40,000	0	40,000
FAA	0	0	0	720,000	0	720,000
MnDOT	0	0	0	40,000	0	40,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>800,000</b>	<b>0</b>	<b>800,000</b>

### Project Timeline

2022

## Project: ARFF - SRE Building Construction

Department: SALES TAX - AIRPORT

Project Years: 2022 - 2022

### Project Description

Construct ARFF/SRE Building

### Project Justification

Reconstruct Airport Rescue Fire Fighting (ARFF) and Snow Removal Equipment (SRE) building. Current building is functionally obsolete with bays that will not accommodate airport maintenance equipment and fire truck. Proposed State Bonding Funds for project.

### Project Uses

	2019	2020	2021	2022	2023	Total
Construct ARFF/SRE Building	0	0	0	2,000,000	0	2,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,000,000</b>	<b>0</b>	<b>2,000,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
State Bonding	0	0	0	2,000,000	0	2,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,000,000</b>	<b>0</b>	<b>2,000,000</b>

### Project Timeline

2020



## Project: Rehabilitate Taxiways D, E

Department: SALES TAX - AIRPORT

Project Years: 2022 - 2022

### Project Description

Taxiway Maintenance - Rehabilitate Taxiways D, E (Mill & Overlay)

### Project Justification

Mill and overlay pavement of Taxiways D and E.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Rehabilitate Taxiways D, E.	0	0	0	400,000	0	400,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>400,000</b>	<b>0</b>	<b>400,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	0	0	20,000	0	20,000
FAA	0	0	0	360,000	0	360,000
MnDOT	0	0	0	20,000	0	20,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>400,000</b>	<b>0</b>	<b>400,000</b>

### Project Timeline

2022

## Project: Construct Wildlife/Security Fencing & Perimeter Road

Department: SALES TAX - AIRPORT

Project Years: 2023 - 2023

### Project Description

Airfield - Construct Wildlife/Security Fencing & Perimeter Road

### Project Justification

Combined project to increase height on wildlife fence and construct perimeter road

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Wildlife/Security Fence & Perimeter Road	0	0	0	0	1,500,000	1,500,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,500,000</b>	<b>1,500,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	0	0	0	75,000	75,000
FAA	0	0	0	0	1,350,000	1,350,000
MnDOT	0	0	0	0	75,000	75,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,500,000</b>	<b>1,500,000</b>

### Project Timeline

2022

## Project: Design T-Hangar

Department: SALES TAX - AIRPORT

Project Years: 2023 - 2023

## Project Description

Hanger Projects - Design T-Hangar

## Project Justification

Design for Replacement T-Hangar (3130)

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2019	2020	2021	2022	2023	Total
Design T-Hangar	0	0	0	0	75,000	75,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,000</b>	<b>75,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	0	0	0	22,500	22,500
MnDOT	0	0	0	0	52,500	52,500
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,000</b>	<b>75,000</b>

## Project Timeline

2023

## Project: Update Airport Master Plan / ALP

Department: SALES TAX - AIRPORT

Project Years: 2023 - 2023

### Project Description

Master Plan - Update Airport Master Plan/ALP

### Project Justification

Mid-cycle Airport Master Plan update

### Engagement Strategy

***Community projects, including sales tax items***

- ◆ Community Investment Plan open house (future opportunities--detailed on overall Community Investment Plan communications and engagement action plan)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Direct mail to area residents living near project
- ◆ Focus groups
- ◆ Pop-up events
- ◆ Informational materials (print and electronic)
- ◆ Online newsletter
- ◆ News release and email notification asking for input
- ◆ Utility insert
- ◆ Online engagement tools
- ◆ Surveys (online)
- ◆ Online city calendar
- ◆ Social media
- ◆ Video
- ◆ Other

***City projects, including sales tax items***

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2019	2020	2021	2022	2023	Total
Master Plan	0	0	0	0	150,000	150,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>	<b>150,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Airport CIP	0	0	0	0	7,500	7,500
FAA	0	0	0	0	135,000	135,000
MnDOT	0	0	0	0	7,500	7,500
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>	<b>150,000</b>

## Project Timeline

2023





## **SALES TAX - PARKING**





## Cash Flow

	2019	2020	2021	2022	2023	Total
<b>Fund Balance</b>	\$305,940.00	\$10,940.00	\$35,940.00	\$10,940.00	\$130,940.00	
<b>Sales Tax - Parking</b>	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	
<b>Total Revenue Available</b>	\$505,940.00	\$210,940.00	\$235,940.00	\$210,940.00	\$330,940.00	
Project Name	2019	2020	2021	2022	2023	Total
Rehab downtown area surface parking lots	-\$120,000.00					-\$120,000.00
Cherry St. ramp head knockers and alley expansion joint	-\$125,000.00					-\$125,000.00
Civic Center skyway columns support facade	-\$125,000.00					-\$125,000.00
Mankato Place Ramp - connecting skyways		-\$160,000.00				-\$160,000.00
Civic Center ramp Riverfront Drive stairwell			-\$175,000.00			-\$175,000.00
Cherry St. ramp stairwells			-\$15,000.00			-\$15,000.00
Mankato place ramp stairwells			-\$35,000.00			-\$35,000.00
Mankato Place ramp center stairwell				-\$80,000.00		-\$80,000.00
Broad street ramp					-\$35,000.00	-\$35,000.00
Replace expansion joints in Mankato Place ramp		-\$15,000.00				-\$15,000.00
Cherry St. ramp improvements	-\$125,000.00					-\$125,000.00
<b>Total</b>	<b>-\$495,000.00</b>	<b>-\$175,000.00</b>	<b>-\$225,000.00</b>	<b>-\$80,000.00</b>	<b>-\$35,000.00</b>	<b>-\$1,010,000.00</b>
<b>Fund Balance</b>	<b>\$10,940.00</b>	<b>\$35,940.00</b>	<b>\$10,940.00</b>	<b>\$130,940.00</b>	<b>\$295,940.00</b>	<b>\$484,700.00</b>

## 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
Cherry Street Ramp Improvements	2019	125,000
Parking - Cherry Street Ramp Head Knockers and Alley Expansion Joint	2019	125,000
Parking - Civic Center Skyway Columns Support Facade	2019	125,000
Parking - Rehab Downtown Area Surface Parking Lots	2019	120,000
<b>Subtotal</b>		<b>495,000</b>
<b>Total</b>		<b>495,000</b>

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Mankato Place Ramp - Connecting Skyways	2020	160,000
Replace Expansion Joints in Mankato Place Ramp	2020	15,000
<b>Subtotal</b>		<b>175,000</b>
<b>Total</b>		<b>175,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Cherry Street Ramp Stairwells	2021	15,000
Civic Center Ramp Riverfront Drive Stairwell	2021	175,000
Mankato Place Ramp Stairwells	2021	35,000
<b>Subtotal</b>		<b>225,000</b>
<b>Total</b>		<b>225,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Mankato Place Ramp Center Stairwell	2022	80,000
<b>Subtotal</b>		<b>80,000</b>
<b>Total</b>		<b>80,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Broad Street Ramp	2023	35,000
<b>Subtotal</b>		<b>35,000</b>
<b>Total</b>		<b>35,000</b>

## Project: Cherry Street Ramp Improvements

Department: SALES TAX - PARKING

Project Years: 2019 - 2019

### Project Description

Cherry St Ramp currently has two issues concerns, 1. truck traffic using the ramp as a turn around, loading the ramp beyond its rated capacity. 2. Water intrusion with the existing seal along the East entrance from the alley. Installing the clearance limiting structure will keep heavy traffic off the ramp. Replacing the seal with an expansion joint would prevent water intrusion and allow for expansion and contraction of the ramp without causing damage to the seal or the ramp.

### Project Justification

Installing a clearance restriction header will eliminate over weight vehicles from using the ramp as a turn-around.

Also the ramp currently has issues with water intrusion with the existing seal. Replacing the seal with an expansion joint would prevent water intrusion and allow for expansion and contraction of the ramp without causing damage to the seal or the ramp.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	113,950	0	0	0	0	113,950
Contingency	6,500	0	0	0	0	6,500
Engineering	3,250	0	0	0	0	3,250
Finance	1,300	0	0	0	0	1,300
<b>Total</b>	<b>125,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Parking Ramps	125,000	0	0	0	0	125,000
<b>Total</b>	<b>125,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>

## Project Timeline

Summer of 2019

## Project: Parking - Cherry Street Ramp Head Knockers and Alley Expansion Joint

Department: SALES TAX - PARKING

Project Years: 2019 - 2019

### Project Description

Install clearance limiting structure and remove existing seal and replace with an expansion joint.

### Project Justification

Cherry Street Ramp currently has two issues concerns, 1. Truck traffic using the ramp as a turn around, loading the ramp beyond its rated capacity. 2. Water intrusion with the existing seal along the East entrance from the alley. Installing the clearance limiting structure will keep heavy traffic off the ramp. Replacing the seal with an expansion joint would prevent water intrusion and allow for expansion and contraction of the ramp without causing damage to the seal or the ramp.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Parking improvements	125,000	0	0	0	0	125,000
<b>Total</b>	<b>125,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Parking Ramps	125,000	0	0	0	0	125,000
<b>Total</b>	<b>125,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>

### Project Timeline

2nd quarter 2019 - Construction of parking lot improvements

## Project: Parking - Civic Center Skyway Columns Support Facade

Department: SALES TAX - PARKING

Project Years: 2019 - 2019

### Project Description

Install clearance limiting structure and remove existing seal and replace with an expansion joint.

### Project Justification

Current issues with the Cherry Street Ramp are truck traffic using the ramp as a turn around and loading the ramp beyond its rated capacity. There is also water intrusion with the existing seal along the East entrance from the alley. Installing the clearance limiting structure will keep heavy traffic off the ramp. Replacing the seal with an expansion joint would prevent water intrusion and allow for expansion and contraction of the ramp without causing damage to the seal or the ramp

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Parking Improvements	125,000	0	0	0	0	125,000
<b>Total</b>	<b>125,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Parking Ramps	125,000	0	0	0	0	125,000
<b>Total</b>	<b>125,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>

### Project Timeline

2nd Quarter 2019

## Project: Parking - Rehab Downtown Area Surface Parking Lots

Department: SALES TAX - PARKING

Project Years: 2019 - 2019

### Project Description

Mill, overlay and re-stripe downtown area parking lots 16 (MN Iron), 17 (Denco)

### Project Justification

Lots are currently in poor condition. Numerous potholes, cracks, etc.

### Project Uses

	2019	2020	2021	2022	2023	Total
Construction	99,600	0	0	0	0	99,600
Contingency	12,000	0	0	0	0	12,000
Engineering	6,000	0	0	0	0	6,000
Finance	2,400	0	0	0	0	2,400
<b>Total</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Parking Ramps	120,000	0	0	0	0	120,000
<b>Total</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

### Project Timeline

Summer of 2019

## Project: Mankato Place Ramp - Connecting Skyways

Department: SALES TAX - PARKING

Project Years: 2020 - 2020

### Project Description

Sandblast and paint the three skyways connecting the Mankato Place Ramp to the IGC Building and Mankato Place Mall.

### Project Justification

The original coatings on the steel structure is failing and needs to be removed and the steel super structure will need to be primed and painted. This will provide an additional 10-15 years of protection for the super structure.

### Engagement Strategy

- ◆ Community Investment Plan open house (future opportunities--detailed on overall Community Investment Plan communications and engagement action plan)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Direct mail to area residents living near project
- ◆ Focus groups
- ◆ Pop-up events
- ◆ Informational materials (print and electronic)
- ◆ Online newsletter
- ◆ News release and email notification asking for input
- ◆ Utility insert
- ◆ Online engagement tools
- ◆ Surveys (online)
- ◆ Online city calendar
- ◆ Social media
- ◆ Video
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Parking Improvements	0	160,000	0	0	0	160,000
<b>Total</b>	<b>0</b>	<b>160,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>160,000</b>



## Funding and Sources

	2019	2020	2021	2022	2023	Total
Parking Ramps	0	160,000	0	0	0	160,000
Total	0	160,000	0	0	0	160,000

## Project Timeline

2nd quarter - 2020

## Project: Replace Expansion Joints in Mankato Place Ramp

Department: SALES TAX - PARKING

Project Years: 2020 - 2020

### Project Description

Replace the remaining Expansion Joints in the Mankato Place Ramp

### Project Justification

The expansion joints are critical for the longevity of the post tension cables and rebar that support the driving surface portions of the ramp.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Contingency	0	7,500	0	0	0	7,500
Engineering Design	0	7,500	0	0	0	7,500
<b>Total</b>	<b>0</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	0	15,000	0	0	0	15,000
<b>Total</b>	<b>0</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Project Timeline

Early summer 2019

## Project: Cherry Street Ramp Stairwells

Department: SALES TAX - PARKING

Project Years: 2021 - 2021

### Project Description

Floor coatings and paint the stairwells in the Cherry Street Ramp

### Project Justification

Enhance appearance of the stairwells

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Parking ramp improvements	0	0	15,000	0	0	15,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Parking Ramps	0	0	15,000	0	0	15,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Project Timeline

2nd quarter - 2021

## Project: Civic Center Ramp Riverfront Drive Stairwell

Department: SALES TAX - PARKING

Project Years: 2021 - 2021

### Project Description

Replace the front glass windows, 5 door replacement and rehab portions of the steps.

### Project Justification

The front glass and frame work have settled causing a sag throughout the levels. This has broken seals on 80% of window panes and the main entrance door does not operate properly. The different level doors are rusting and becoming inoperable.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Parking ramp improvements	0	0	175,000	0	0	175,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>175,000</b>	<b>0</b>	<b>0</b>	<b>175,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Parking Ramps	0	0	175,000	0	0	175,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>175,000</b>	<b>0</b>	<b>0</b>	<b>175,000</b>

### Project Timeline

2nd quarter - 2020

## Project: Mankato Place Ramp Stairwells

Department: SALES TAX - PARKING

Project Years: 2021 - 2021

### Project Description

Finish installing floor tile in the north stairwell. Re-coat the floor coatings in the south stairwell.

### Project Justification

Enhance appearance of stairwells

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Parking ramp improvements	0	0	35,000	0	0	35,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Parking Ramps	0	0	35,000	0	0	35,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

### Project Timeline

2nd quarter - 2021

## Project: Mankato Place Ramp Center Stairwell

Department: SALES TAX - PARKING

Project Years: 2022 - 2022

### Project Description

Rehab the center stairwell. Replace all handrails, replace windows, remove rough surface on walls and floors and refinish with smooth surfaces. Also look at options of using the old elevator shaft to improve the stairwell.

### Project Justification

Enhance appearance of stairwell.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2019	2020	2021	2022	2023	Total
Parking ramp improvements	0	0	0	80,000	0	80,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>	<b>0</b>	<b>80,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Parking Ramps	0	0	0	80,000	0	80,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>	<b>0</b>	<b>80,000</b>

### Project Timeline

2nd quarter - 2022

## Project: Broad Street Ramp

Department: SALES TAX - PARKING

Project Years: 2023 - 2023

## Project Description

Replace the upper level railings, tuck point all block mortar joints and repaint all block walls.

## Project Justification

Railings are rusting and block walls have numerous areas where mortar is missing.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2019	2020	2021	2022	2023	Total
Parking ramp improvements	0	0	0	0	35,000	35,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>	<b>35,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Parking Ramps	0	0	0	0	35,000	35,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>	<b>35,000</b>

## Project Timeline

2nd quarter - 2023







# **SALES TAX - SPECIAL PROJECTS**

## 2019 CIP Fund Overview

Project Name	Project Year	Project Costs
Community Recreation Design	2019	240,000
Levy Project	2019	1,000,000
<b>Subtotal</b>		<b>1,240,000</b>
<b>Total</b>		<b>1,240,000</b>

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Replace ARMER Radios	2020	125,000
<b>Subtotal</b>		<b>125,000</b>
<b>Total</b>		<b>125,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Replace ARMER Radios	2021	125,000
<b>Subtotal</b>		<b>125,000</b>
<b>Total</b>		<b>125,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Replace ARMER Radios	2022	125,000
<b>Subtotal</b>		<b>125,000</b>
<b>Total</b>		<b>125,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Replace ARMER Radios	2023	125,000
<b>Subtotal</b>		<b>125,000</b>
<b>Total</b>		<b>125,000</b>

## Project: Community Recreation Design

Department: SALES TAX - SPECIAL PROJECTS

Project Years: 2019 - 2019

### Project Description

Finalize operational feasibility of Tourtellotte Pool/Bath-house and field/facility improvements for the Community Athletic Fields and Thomas Field. This specific component of the project implementation and money allocated to it will only include the design of project. Ultimately this step will allow construction to be complete in 2021.

### Project Justification

Identified as core improvement of existing facility. Addresses ADA accessibility, usability for community, mechanical upgrades, and other park improvements to increase community utilization.

### Engagement Strategy

Neighborhood meetings held in 2017 to determine neighborhood needs and issues, along with their preferred scope of improvements

2018 have engagement during pool season through presentation of matrix of suggested improvements and "voting"

- ◆ Community Investment Plan open house (future opportunities--detailed on overall Community Investment Plan communications and engagement action plan)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Direct mail to area residents living near project
- ◆ Focus groups
- ◆ Pop-up events
- ◆ Informational materials (print and electronic)
- ◆ Online newsletter
- ◆ News release and email notification asking for input
- ◆ Utility insert
- ◆ Online engagement tools
- ◆ Surveys (online)
- ◆ Online city calendar
- ◆ Social media
- ◆ Video
- ◆ Other

## Project Uses

	2019	2020	2021	2022	2023	Total
Design	240,000	0	0	0	0	240,000
<b>Total</b>	<b>240,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>240,000</b>

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	240,000	0	0	0	0	240,000
<b>Total</b>	<b>240,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>240,000</b>

## Project Timeline

2018 Complete engagement to guide improvements

2019 Selection of design firm to complete documents necessary for bidding

2019/2020 Completion of plans and other documents necessary for bidding

2021 Construction

## Project: Levy Project

Department: SALES TAX - SPECIAL PROJECTS

Project Years: 2019 - 2019

## Project Description

Levy Project.

## Project Uses

	2019	2020	2021	2022	2023	Total
Levy	1,000,000	0	0	0	0	1,000,000
Total	1,000,000	0	0	0	0	1,000,000

## Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	1,000,000	0	0	0	0	1,000,000
Total	1,000,000	0	0	0	0	1,000,000

## Project: Replace ARMER Radios

Department: SALES TAX - SPECIAL PROJECTS

Project Years: 2020 - 2023

### Project Description

Replacement of the full-time police and fire staff portable radios and police and fire vehicle radios.

Police Portable Radios: 110 x \$2600 = \$286,000

Fire Portable Radios: 63 x \$2600 = \$163,800

Fire Mobile Radios: 13 x \$4000 = \$52,000

### Project Justification

Motorola announced the end of life of the current radios for 2019. This means that they will no longer manufacture parts for the radios. The radios are like computers and will all be 8 years old in 2019. Technology and software updates will prompt us to have to replace the radios more frequently than in previous years. We will keep the old radios for part-time and reserves.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2019	2020	2021	2022	2023	Total
Purchase Radios	0	125,000	125,000	125,000	125,000	500,000
<b>Total</b>	<b>0</b>	<b>125,000</b>	<b>125,000</b>	<b>125,000</b>	<b>125,000</b>	<b>500,000</b>

### Funding and Sources

	2019	2020	2021	2022	2023	Total
Sales Tax	0	125,000	125,000	125,000	125,000	500,000
<b>Total</b>	<b>0</b>	<b>125,000</b>	<b>125,000</b>	<b>125,000</b>	<b>125,000</b>	<b>500,000</b>

## Project Timeline

1st quarter 2019 - Purchase equipment

2nd quarter 2019 - Installation of vehicle radios

3rd quarter 2019 - Program and deploy radio

